


STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER RW 31-20B				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT RED WASH				
4. TYPE OF WELL Gas Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>						5. UNIT or COMMUNITIZATION AGREEMENT NAME RED WASH				
6. NAME OF OPERATOR QEP ENERGY COMPANY						7. OPERATOR PHONE 303 308-3068				
8. ADDRESS OF OPERATOR 11002 East 17500 South, Vernal, Ut, 84078						9. OPERATOR E-MAIL debbie.stanberry@questar.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU0569			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL	FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN			
LOCATION AT SURFACE	896 FNL 1981 FEL		NWNE	20	7.0 S	23.0 E	S			
Top of Uppermost Producing Zone	896 FNL 1981 FEL		NWNE	20	7.0 S	23.0 E	S			
At Total Depth	896 FNL 1981 FEL		NWNE	20	7.0 S	23.0 E	S			
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 869			23. NUMBER OF ACRES IN DRILLING UNIT 40				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1300			26. PROPOSED DEPTH MD: 11416 TVD: 11416				
27. ELEVATION - GROUND LEVEL 5581			28. BOND NUMBER ESB000024			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE A-36125/ 49-2153				
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	12.25	9.625	0 - 4046	36.0	N-80 LT&C	0.0	Halliburton Light , Type Unknown	460	3.12	11.0
							Halliburton Premium , Type Unknown	350	1.47	13.5
Prod	7.875	4.5	0 - 11416	11.6	HCP-110 LT&C	10.5	Halliburton Light , Type Unknown	630	3.18	11.0
							Halliburton Premium , Type Unknown	520	1.65	13.5
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Valyn Davis			TITLE Regulatory Affairs Analyst			PHONE 435 781-4369				
SIGNATURE			DATE 06/30/2011			EMAIL Valyn.Davis@qepres.com				
API NUMBER ASSIGNED 43047517240000			APPROVAL  Permit Manager							

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QEP Energy Company
RW 31-20B
Summarized Drilling Procedure

1. Construct location per plat.
2. MIRU air drilling rig.
3. Pre-set conductor.
4. Nipple up diverter system.
5. Drill 12-1/4" hole to 4,046' with air/mist.
6. RIH with 9-5/8" 36# N-80 casing and cement same per program.
7. RDMO air drilling rig.
8. MIRU conventional drilling rig.
9. NU and test 5M BOPE.
10. Drill out of 9-5/8" shoe and down to 11,416' using conventional mud systems.
11. Log well. Triple or Quad-Combo (GR, NEU/DEN, IND, RES, SON)
12. RIH with 4-1/2" 11.6# HCP-110 casing and cement same per program.
13. Pressure test casing.
14. ND BOP's and NU remainder of wellhead. Set BPV.
15. RDMO.

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ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 31-20B

DRILLING PROGRAM

ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil & Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. **Formation Tops**

The estimated top of important geologic markers are as follows:

<u>Formation</u>	<u>Depth, TVD & MD</u>
Green River	3,146'
Mahogany	3,996'
Wasatch	6,461'
Mesaverde	8,916'
Sego	11,316'
TD	11,416'

2. **Anticipated Depths of Oil, Gas, Water, and Other Mineral Bearing Zones**

The estimated depths at which the top of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered as follows:

<u>Substance</u>	<u>Formation</u>	<u>Depth, TVD & MD</u>
Oil	Green River	3,146'
Gas	Wasatch	6,461'
Gas	Mesaverde	8,916'
Gas	Sego	11,316'

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

All water shows and water-bearing sands will be reported to the BLM in Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If flows are detected, samples will be submitted to the BLM along with any water analyses conducted. Fresh water will be obtained from Wonsits Valley water right A36125

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
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(which was filed on May 7, 1964) or Red Wash water right # 49-2153 (which was filed on March 25, 1960). It was determined by the Fish and Wildlife Service that any water right number filed before 1989 is not depleting to the Upper Colorado River System, to supply fresh water for drilling purposes. All water resulting from drilling operations will be disposed of at Red Wash Central Battery Disposal site; SWSE, Section 27, T7S, R23E or Wonsits Valley Disposal Site; SWNW, Section 12, T8S, R21E.

3. Operator's Specification for Pressure Control Equipment

- A. An 11" 5000 psi double ram with blind rams and pipe rams, annular preventer and drilling spool or BOP with 2 side outlets.
- B. All BOP connections subject to pressure shall be flanged, welded or clamped.
- C. Kill line (2" min), 2 choke line valves (3" min), choke line (3" min), 2 kill line valves (2" min) and a check valve, 2 chokes with one remotely controlled from rig floor and a pressure gauge on choke manifold.
- D. Upper and Lower Kelly cock valves with handles and safety valve and subs to fit all drill string connections.
- E. IBOP or float sub available.
- F. Fill up line must be installed above the uppermost preventer.
- G. Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 50 percent of internal yield pressure of casing whichever is less. BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc..., for a 5M system and individual components shall be operable as designed.

4. Casing Design:

Hole Size	Csg. Size	Top (MD)	Bottom (MD)	Wt.	Grade	Thread	Cond.	Expected MW(ppg)
17 1/2"	14"	Sfc	60'	Steel	Conductor	None	Used	N/A
12-1/4"	9-5/8"	Sfc	4,046'	36#	N-80	LTC	New	Air
7 7/8"	4-1/2"	Sfc	11,416'	11.6#	HCP-110	LTC	New	10.5

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Casing Strengths:				Collapse	Burst	Tensile (min)
9-5/8"	36#	N-80	LTC	2,370 psi	5,120 psi	820,000 lb.
4 1/2"	11.6#	HCP-110	LTC	8,830 psi	10,710 psi	279,000 lb.

Casing Design Factors

*The casing prescribed above meets or exceeds the below listed design factors.

Burst: 1.2

Collapse: 1.2

Tension: 1.6

Maximum anticipated mud weight: 10.5 ppg

Maximum anticipated surface treating pressure: 7,200 psi

5. Cementing Program

9-5/8" Surface Casing:

Lead Slurry: Surface (TOC) – 3,000'. 460 sks (1409 ft³) Halliburton Extendacem, 1 pps Granulite TR 1/4, 0.125 pps Poly-E-Flake, Slurry Weight 11.0 ppg, 3.12 ft³/sk, 50% XS in open hole only.

Tail Slurry: 3,000' – 4,046'. 350 sx (509 ft³) Halliburton Econocem, 0.2% HR-5 Retarder, 1.0 pps Granulite TR 1/4, 0.125 pps Poly-E-Flake, Slurry Weight 13.5 ppg, 1.47 ft³/sk, 50% XS in open hole.

4-1/2" Production Casing*:

Lead Slurry: 3,000' (TOC) – 8,916'. 630 sks (2003 ft³) Halliburton Extendacem, 1 pps Granulite 1/4, 0.125 pps Poly-E-Flake. Slurry Weight 11.0 lb/gal, 3.18 ft³/sk, 50% excess over gauge in open hole only.

Tail Slurry: 8,916' – 11,416'. 520 sks (858 ft³), Halliburton Expandacem, 0.3% Super CBL (Expander), 0.6% HR-800 (Retarder), 1 pps Granulite TR 1/4, 0.125 pps Poly-E-Flake (LCM). Slurry Weight 13.5 lb/gal, 1.65 ft³/sk, 50% excess over gauge hole.

*Final cement volumes to be calculated from caliper log.

6. Auxiliary Equipment

A. Kelly Cock – yes

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 31-20B

- B. Float at the bit – Yes
- C. Monitoring equipment on the mud system – PVT/Flow Show
- D. Full opening safety valve on the rig floor – Yes
- E. Rotating Head – Yes
- F. Request for Variance:

Drilling surface hole with air:

A variance from 43 CFR 3160 Onshore Oil and Gas Order #2, Section III Requirements, subsection E. Special Drilling Operations is requested for the specific operation of drilling and setting surface casing on the subject well with a truck mounted air rig. The variance from the following requirements of Order #2 is requested because surface casing depth for this well is 4,046' feet and high pressures are not expected.

1. **Properly lubricated and maintained rotating head** – A diverter system in place of a rotating head. The diverter system forces the air and cutting returns to the reserve pit and is used to drill the surface casing.
 2. **Blooiie line discharge 100 feet from wellbore and securely anchored** – the blooiie line discharge for this operation will be located 50 to 70 feet from the wellhead. This reduced length is necessary due to the smaller location size to minimize surface disturbance.
 3. **Automatic igniter or continuous pilot light on blooiie line** – a diffuser will be used rather than an automatic pilot/igniter. Water is injected into the compressed air and eliminates the need for a pilot light and the need for dust suppression equipment.
 4. **Compressors located in the opposite direction from the blooiie line a minimum of 100 feet from the wellbore** – compressors located within 50 feet on the opposite side of the wellbore from the blooiie line and is equipped with a 1) emergency kill switch on the driller's console, 2) pressure relief valves on the compressors, 3) spark arrestors on the motors.
- G. Drilling below the 9-5/8" casing will be done with water based mud. Maximum anticipated mud weight is 10.5 ppg.
 - H. No minimum quantity of weight material will be required to be kept on location.
 - I. Gas detector will be used from intermediate casing depth to TD.

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QEP ENERGY COMPANY
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7. **Testing, logging and coring program**

- A. Cores – none.
- B. DST – none anticipated
- C. Logging – Mud logging – Intermediate Casing to TD
OH Logs: GR-SP-Induction, Neutron Density.
- D. Formation and Completion Interval:
 - Stimulation will be designed for the particular area of interest as encountered.

8. **Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards**

No abnormal temperatures or pressures are anticipated. Maximum anticipated bottom hole pressure equals approximately 6,233 psi. Maximum anticipated bottom hole temperature is 218° F.

H2S has not been encountered in other wells drilled to similar depths in the general area.

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
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5M BOP STACK

Rotating Head

Spacer Spool

5M Annular

5M Double Ram

2" Kill Line
2" 5M Check Manual
2" 5M Manual

5M x 9 5/8" 5M Casing Head

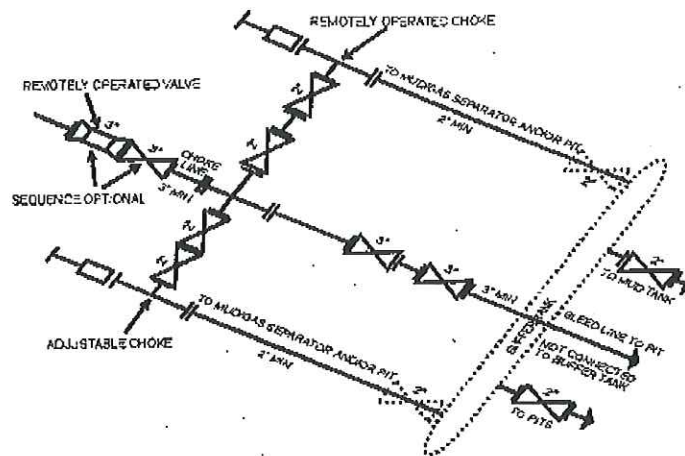
Flowline

3" Choke Line

G.L.

3" 5M Manual HCS

ONSHORE OIL & GAS ORDER NO. 1
QEP ENERGY COMPANY
RW 31-20B



5M CHOKES MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the purpose of gasfolding the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 2M, 3M, 10M, OR 15M drawings, it would also be applicable to these situations.
[54 FR 29528, Sept. 27, 1989]

RW 31-20B
SESE Sec 16 T7S R23E
896' FNL & 1981' FEL Sec 20 T7S R23E S.L.B.&M.
Uintah County, Utah
KB 5,596'
GL 5,582'

14" Conductor at 60'

Cemented to surface

Top of Production Lead Cement at 3,000'
Top of Surface Tail Cement at 3,000'

12-1/4" Open Hole

9-5/8" 36# N-80 @ 4,046'

Top of Production Tail Cement = 1,000' above 4-1/2"

7-7/8" Open Hole

4 1/2" 11.6# HCP-110

11,416'

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T7S, R23E, S.L.B.&M.

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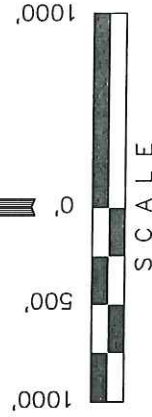
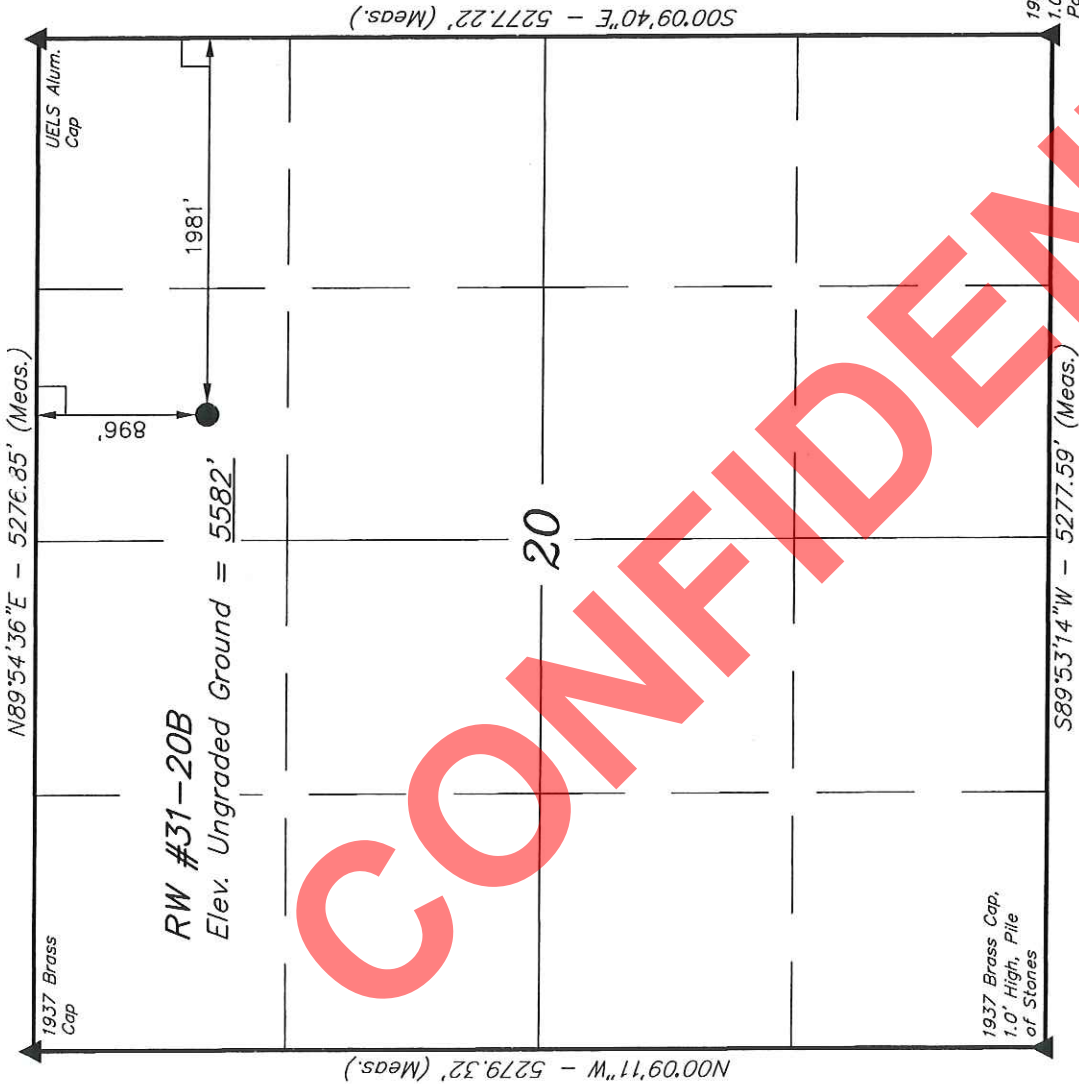
Well location, RW #31-20B, located as shown in the NW 1/4 NE 1/4 of Section 20, T7S, R23E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 20EAM LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

[Signature]
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 01-10-11	DATE DRAWN: 02-01-11
PARTY A.F. J.C. J.I.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE	
		QEP ENERGY COMPANY

LEGEND:

— = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(NAD 83)
LATITUDE = 40°11'59.33" (40.199814)
LONGITUDE = 109°20'55.19" (109.348664)
(NAD 27)
LATITUDE = 40°11'59.46" (40.199850)
LONGITUDE = 109°20'52.73" (109.347981)

QEP ENERGY COMPANY

RW #31-20B

**LOCATED IN UINTAH COUNTY, UTAH
SECTION 20, T7S, R23E, S.L.B.&M.**

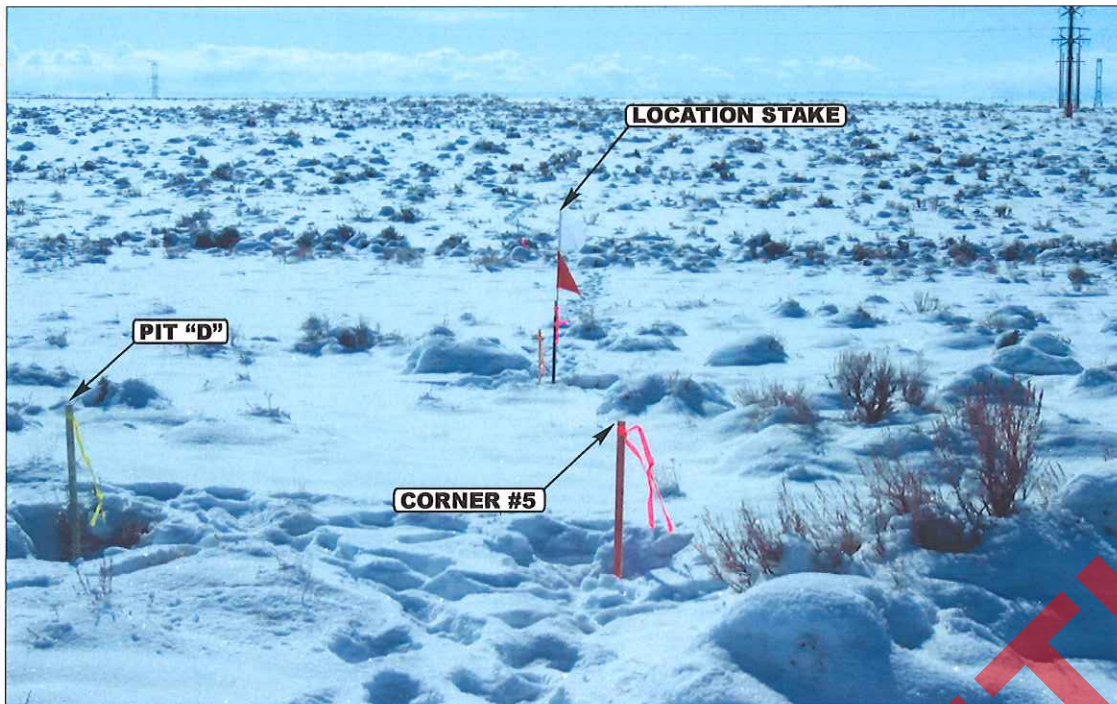


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY



PHOTO: VIEW OF BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: EASTERLY



- Since 1964 -

UELS

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

LOCATION PHOTOS

01	13	11
MONTH	DAY	YEAR

PHOTO

TAKEN BY: A.F.	DRAWN BY: J.L.G.	REVISED: 00-00-00
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RECEIVED: Jul. 07, 2011

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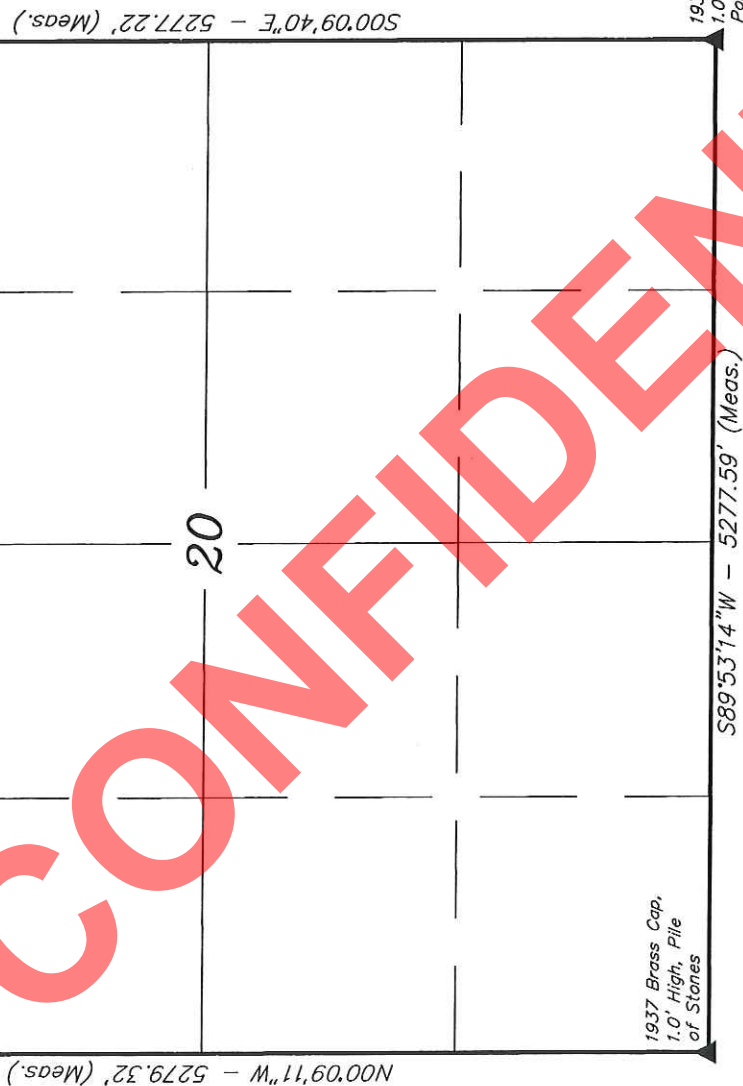
Well location, RW #31-20B, located as shown in the NW 1/4 NE 1/4 of Section 20, T7S, R23E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 20EAM LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE, QUADRANGLE, UTAH, UINAH COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

UTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

LEGEND:

$$\angle = 90^\circ \text{ SYMBOL}$$

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

LATITUDE = 40°11'59.33" (NAD 83) (40.199814)
 LONGITUDE = 109°20'55.19" (NAD 27) (109.348664)

SCALE	1" = 1000'	DATE SURVEYED:	01-10-11	DATE DRAWN:	02-01-11
PARTY	A.F. J.C. J.I.	REFERENCES	G.L.O. PLAT		
WEATHER	COOL	FILE	OED ENERGY COMPANY		

QEP ENERGY COMPANY

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LOCATION LAYOUT FOR

RW #31-20B

SECTION 20, T7S, R23E, S.L.B.&M.

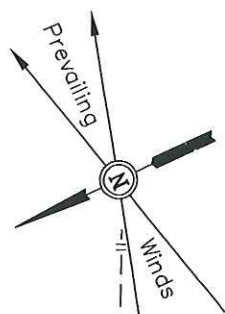
896' FNL 1981' FEL

FIGURE #1

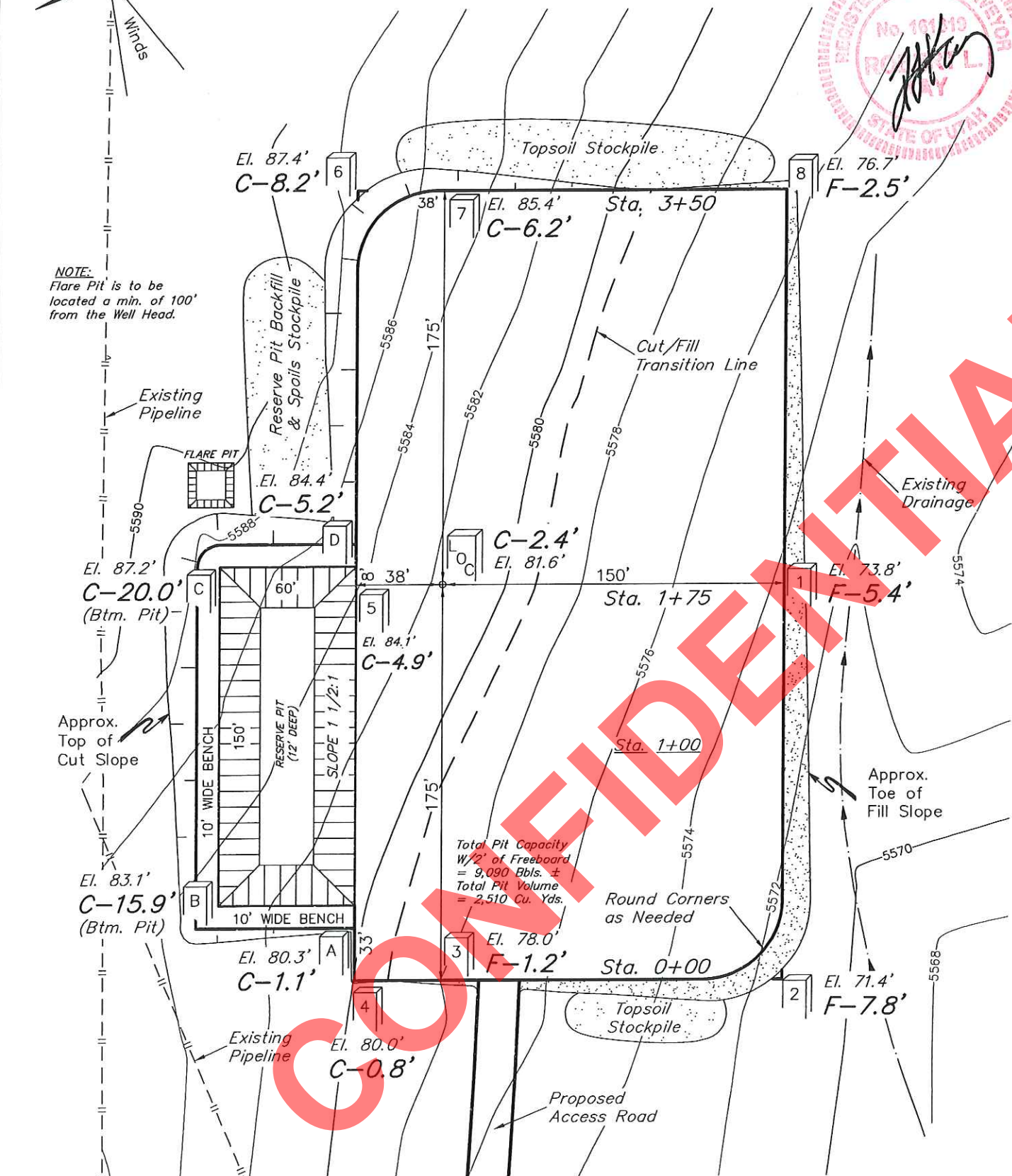
SCALE: 1" = 60'

DATE: 02-01-11

DRAWN BY: J.I.



NOTE:
Flare Pit is to be
located a min. of 100'
from the Well Head.



Total Pit Capacity
W/2' of Freeboard
= 9,090 Bbls. ±
Total Pit Volume
= 2,510 Cu. Yds.

Elev. Ungraded Ground At Loc. Stake = 5581.3'
FINISHED GRADE ELEV. AT LOC. STAKE = 5579.2'

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TYPICAL CROSS SECTIONS FOR

RW #31-20B

SECTION 20, T7S, R23E, S.L.B.&M.

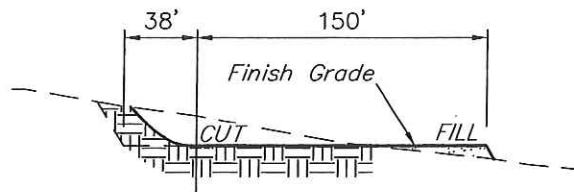
896' FNL 1981' FEL

FIGURE #2

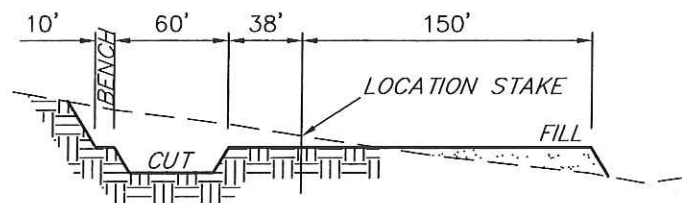
1" = 40'
X-Section
Scale
1" = 100'

DATE: 02-01-11

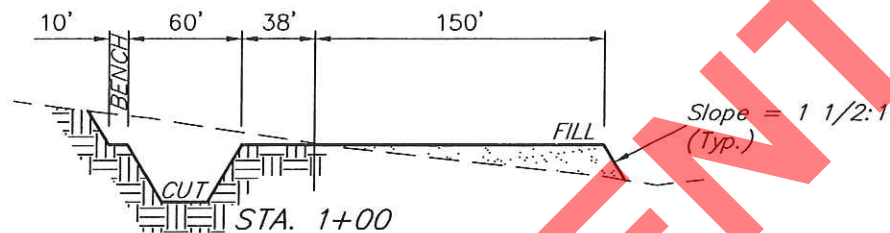
DRAWN BY: J.I.



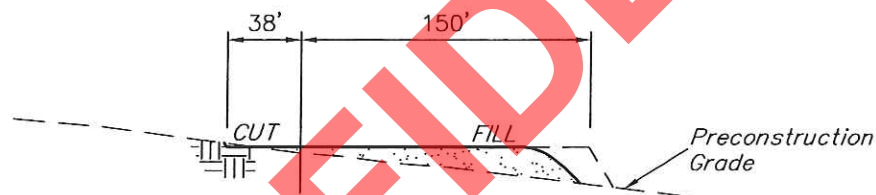
STA. 3+50



STA. 1+75



STA. 1+00



STA. 0+00

NOTE:

Topsoil should not be
Stripped Below Finished
Grade on Substructure Area.

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 2.222 ACRES
ACCESS ROAD DISTURBANCE = ± 0.618 ACRES
PIPELINE DISTURBANCE = ± 2.910 ACRES
TOTAL = ± 5.750 ACRES

* NOTE:
FILL QUANTITY INCLUDES
5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping = 1,670 Cu. Yds.
Remaining Location = 7,250 Cu. Yds.
TOTAL CUT = 8,920 CU.YDS.
FILL = 5,990 CU.YDS.

EXCESS MATERIAL = 2,930 Cu. Yds.
Topsoil & Pit Backfill = 2,930 Cu. Yds.
(1/2 Pit Vol.)
EXCESS UNBALANCE = 0 Cu. Yds.
(After Interim Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING

85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

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QEP ENERGY COMPANY

TYPICAL RIG LAYOUT FOR

RW #31-20B

SECTION 20, T7S, R23E, S.L.B.&M.

896' FNL 1981' FEL

FIGURE #3

SCALE: 1" = 60'

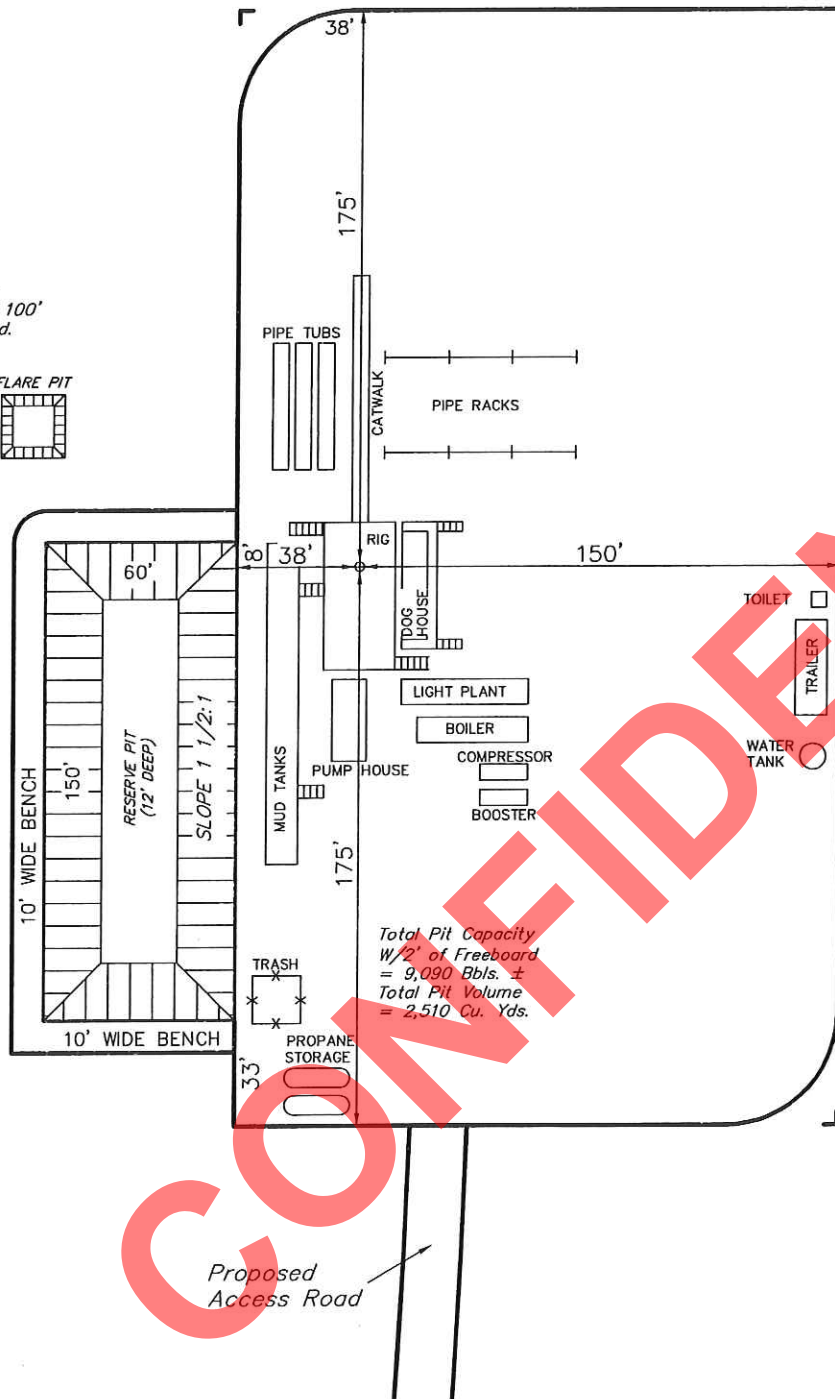
DATE: 02-01-11

DRAWN BY: J.I.



NOTE:
Flare Pit is to be
located a min. of 100'
from the Well Head.

FLARE PIT



UINTAH ENGINEERING & LAND SURVEYING

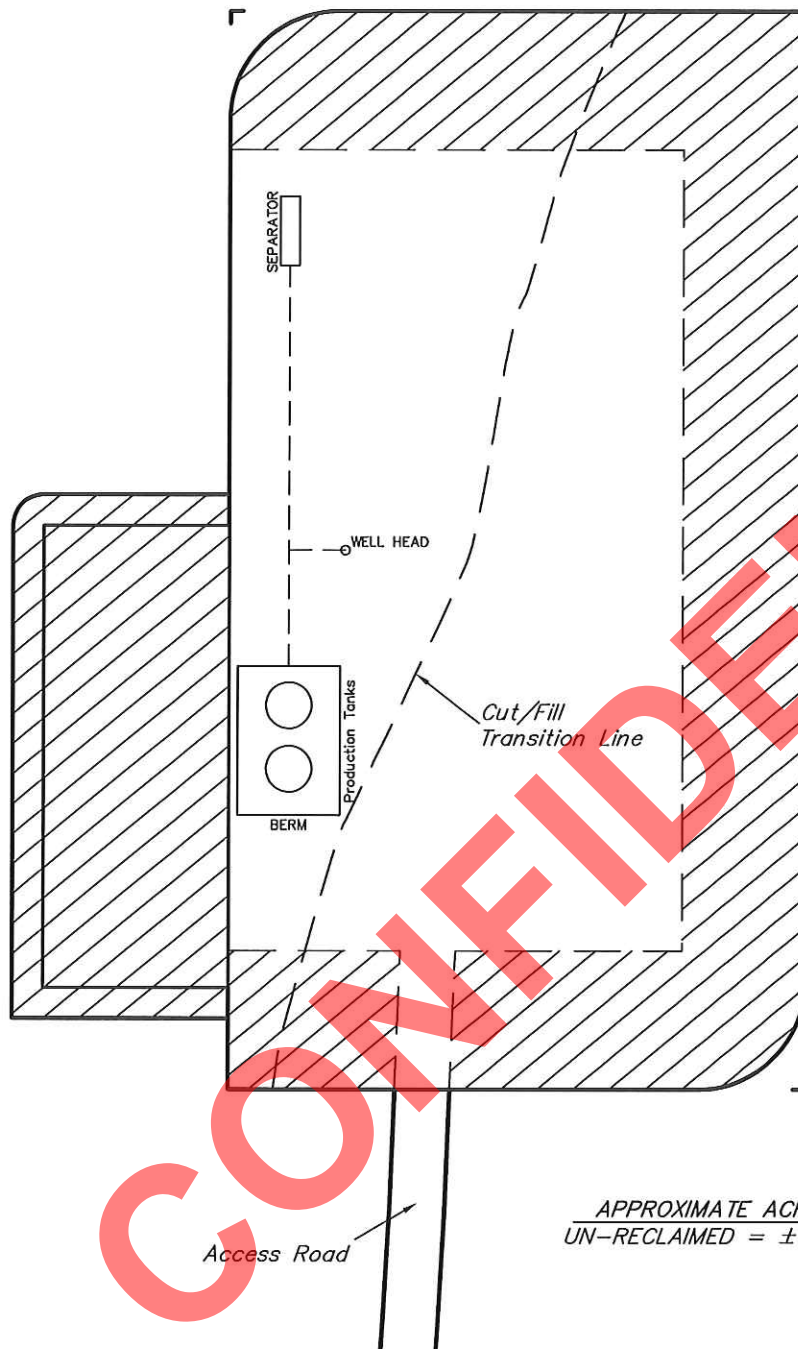
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QEP ENERGY COMPANY
PRODUCTION FACILITY LAYOUT FOR
RW #31-20B
SECTION 20, T7S, R23E, S.L.B.&M.
896' FNL 1981' FEL

FIGURE #4

SCALE: 1" = 60'
DATE: 02-01-11
DRAWN BY: J.I.
REV.: 06-27-11 J.I.



APPROXIMATE ACREAGES
UN-RECLAIMED = ± 0.902 ACRES

 INTERIM RECLAMATION

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

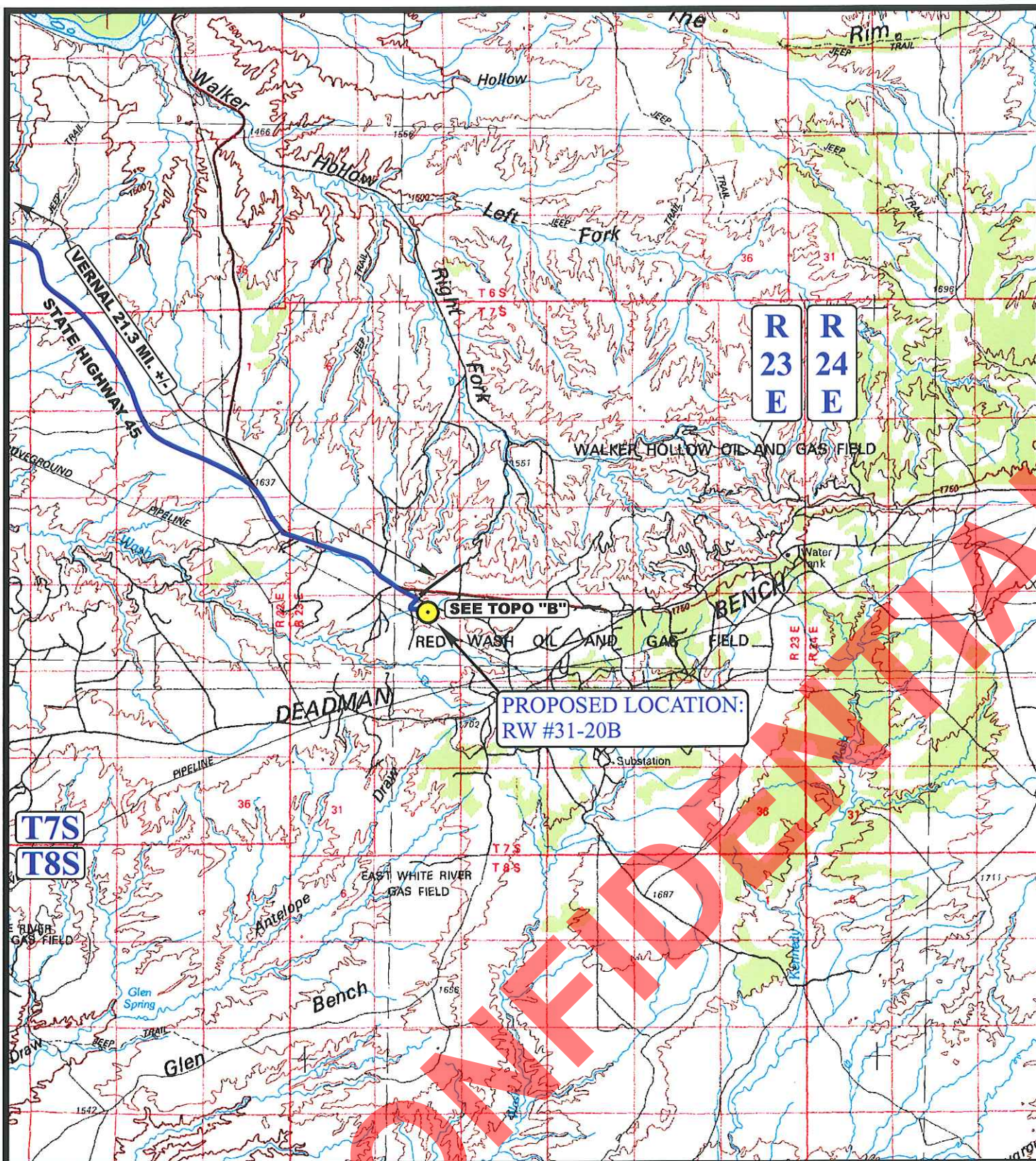
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QEP ENERGY COMPANY
RW #31-20
SECTION 20, T7S, R23E, S.L.B.&M.

PROCEED IN AN EASTERLY, THEN SOUTHERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 3.9 MILES TO THE JUNCTION OF STATE HIGHWAY 45; EXIT RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 898' TO THE PROPOSED LOCATION

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 21.6 MILES.

CONFIDENTIAL



LEGEND:

PROPOSED LOCATION

QEP ENERGY COMPANY

RW #31-20B
SECTION 20, T7S, R23E, S.L.B.&M.
896' FNL 1981' FEL



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

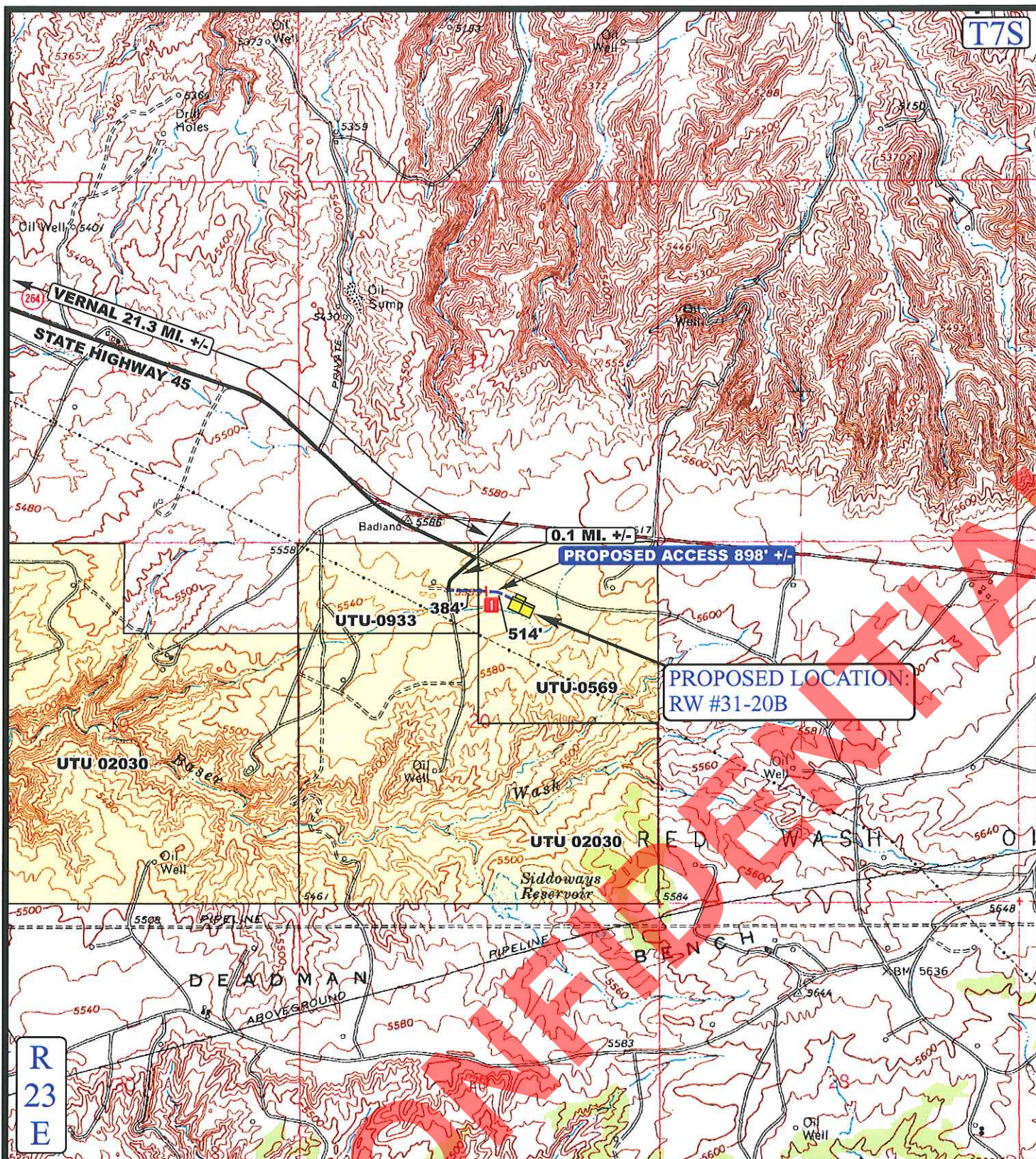


**TOPOGRAPHIC
MAP**

01 13 11
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: J.L.G. REVISED: 00-00-00





LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING ROAD
- 18" CMP REQUIRED



QEP ENERGY COMPANY

RW #31-20B
SECTION 20, T7S, R23E, S.L.B.&M.
896' FNL 1981' FEL



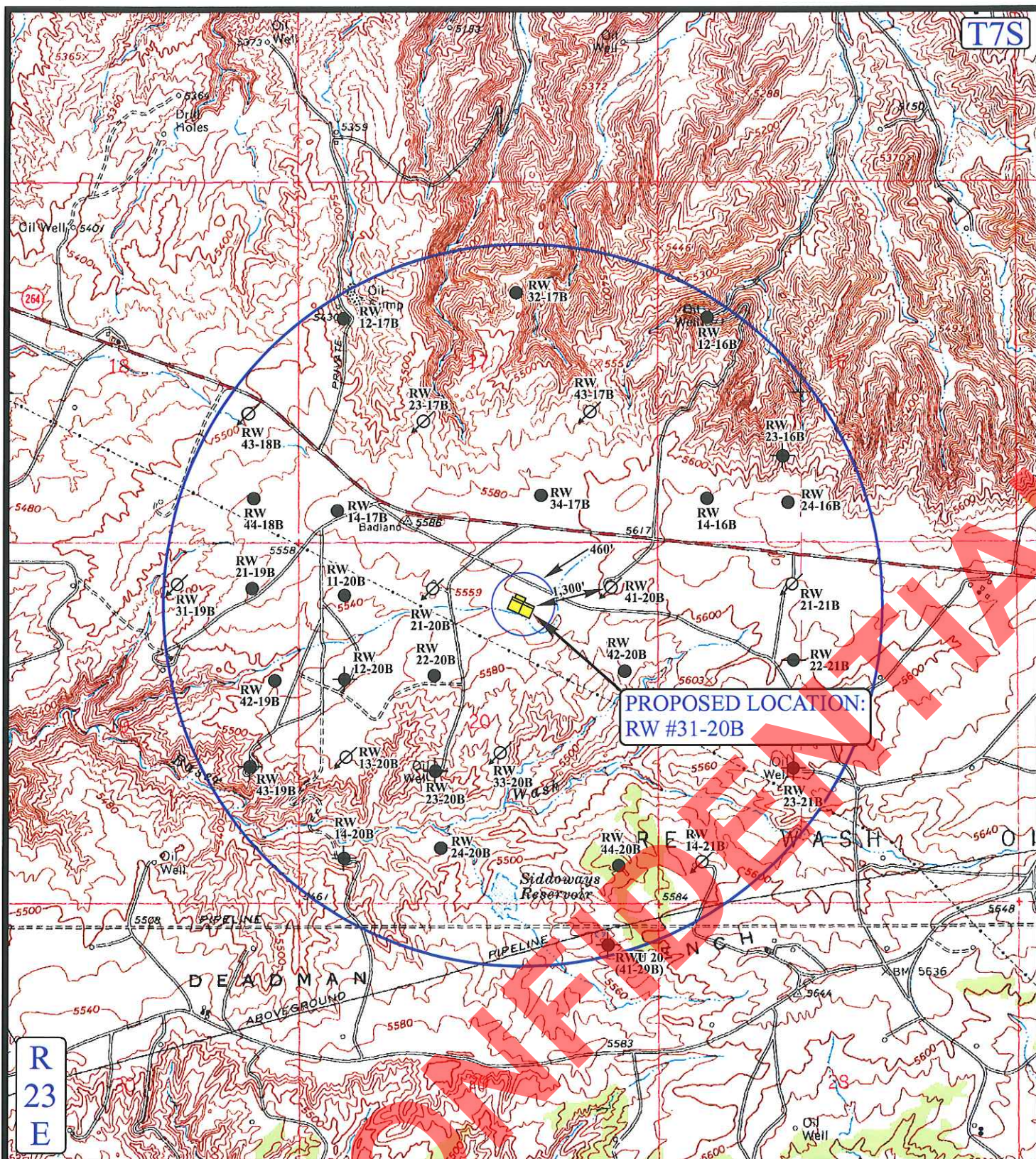
Utah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

**TOPOGRAPHIC
MAP**

01 13 11
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 00-00-00





LEGEND:

- | | |
|-------------------|-------------------------|
| ⊗ DISPOSAL WELLS | ⊗ WATER WELLS |
| ● PRODUCING WELLS | ⊗ ABANDONED WELLS |
| ⊙ SHUT IN WELLS | ⊗ TEMPORARILY ABANDONED |

QEP ENERGY COMPANY

RW #31-20B
SECTION 20, T7S, R23E, S.L.B.&M.
896' FNL 1981' FEL



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 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

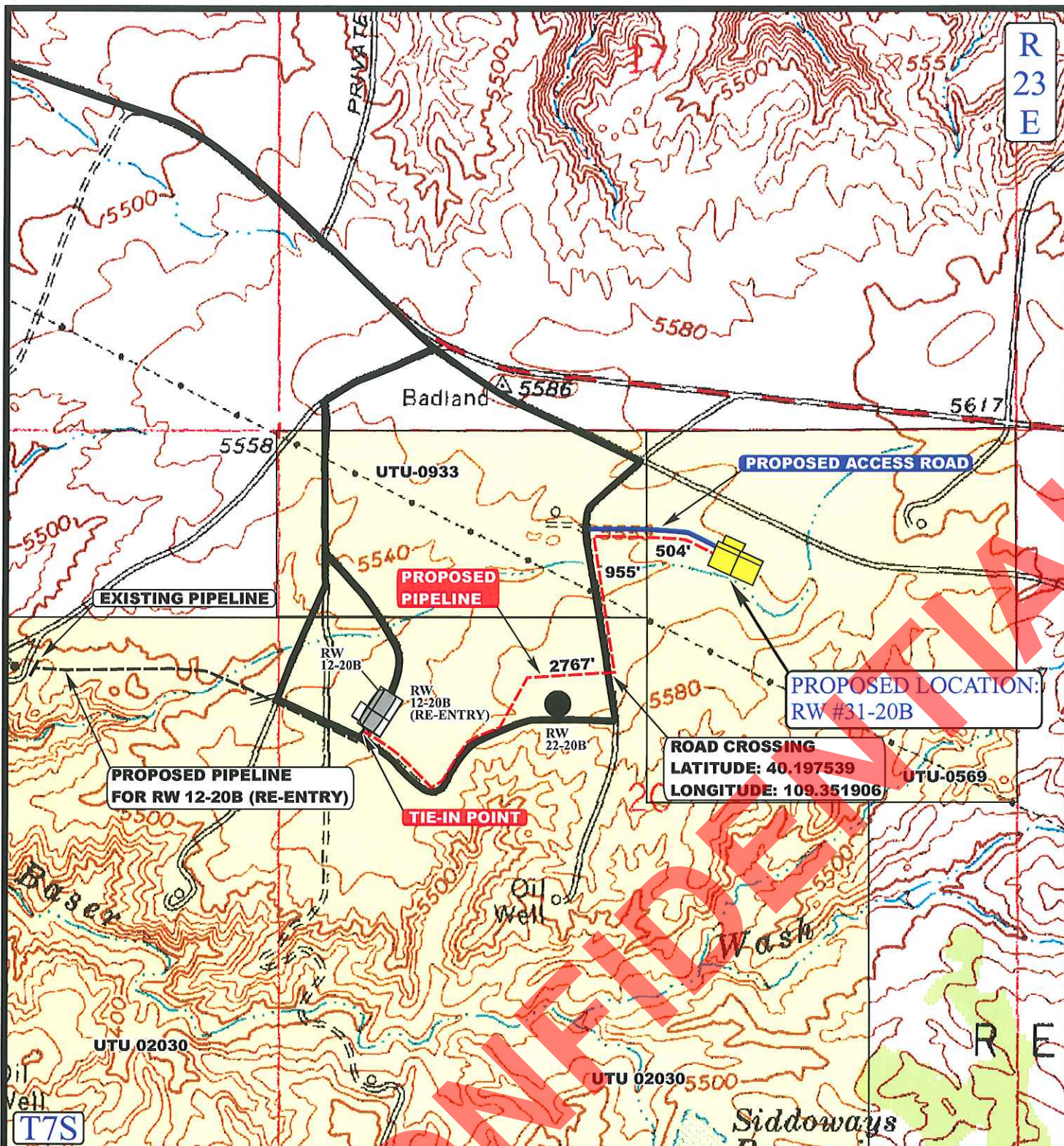


TOPOGRAPHIC
MAP

01 13 11
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 00-00-00





APPROXIMATE TOTAL PIPELINE DISTANCE = 4,226' +/-

LEGEND:

- EXISTING PIPELINE
- - - - - PROPOSED PIPELINE
- - - - - PROPOSED PIPELINE (SERVICING OTHER WELLS)
- PROPOSED ACCESS

QEP ENERGY COMPANY

RW #31-20B

SECTION 20, T7S, R23E, S.L.B.&M.

896' FNL 1981' FEL



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813



**TOPOGRAPHIC
MAP**

01 13 11
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: J.L.G. REVISED: 00-00-00

**D
TOPO**

QEP ENERGY COMPANY

REFERENCE MAP: AREA OF VEGETATION

RW #31-20B

LOCATED IN UTAH COUNTY, UTAH
SECTION 20, T7S, R23E, S.L.B.&M.

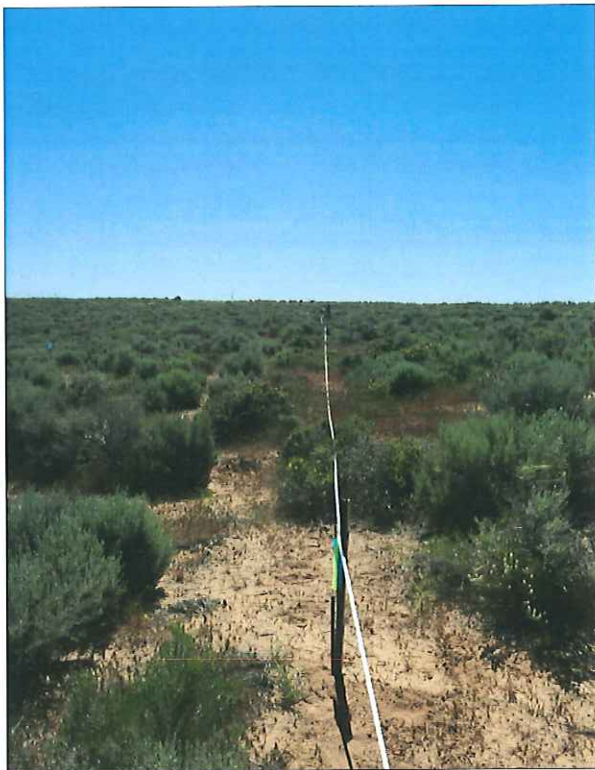


PHOTO: VIEW FROM BEGINNING OF REFERENCE AREA

NOTE:

BEGINNING OF REFERENCE AREA

UTM NORTHING: 14602880.166

UTM EASTING: 2101565.717

LATITUDE: 40.199189

LONGITUDE: -109.349294

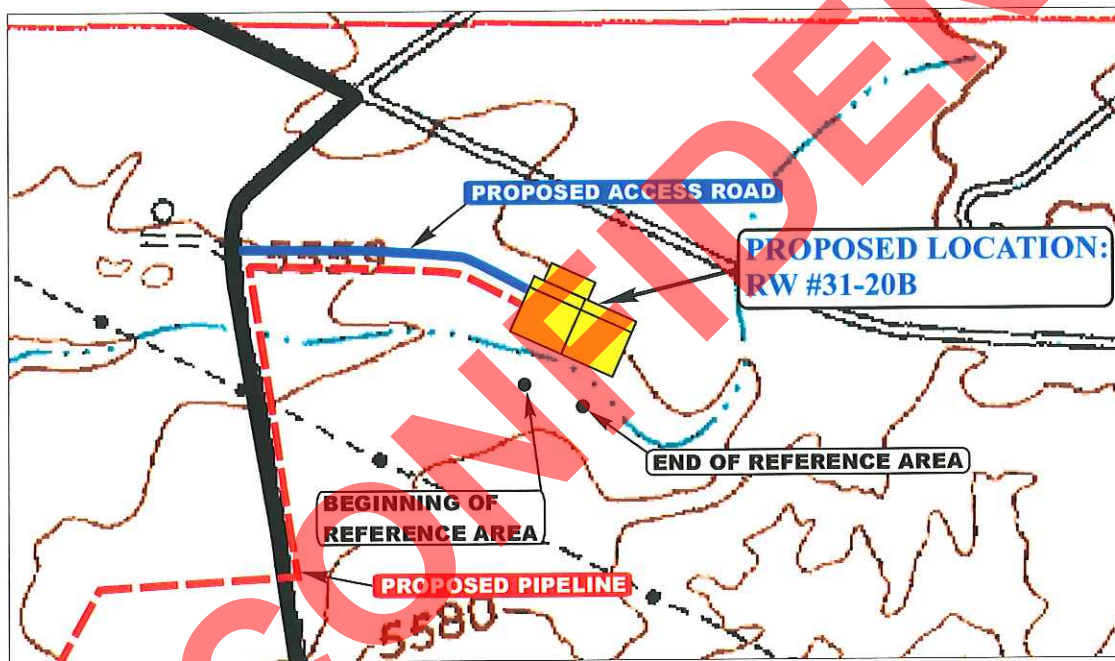
END OF REFERENCE AREA

UTM NORTHING: 14602811.806

UTM EASTING: 2101753.220

LATITUDE: 40.198992

LONGITUDE: -109.348628



- Since 1964 -

**U
E
L
S**

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078

(435) 789-1017 * FAX (435) 789-1813

SCALE: 1" = 300'

06
MONTH

13
DAY

11
YEAR

REF.

TAKEN BY: A.F.

DRAWN BY: Z.L.

REVISED: 00-00-00

RECEIVED: Jul. 07, 2011

WEED DATA SHEETPROJECT NAME: *RW 31-20B*
SURVEYOR: Stephanie TomkinsonDATE: *6-8-11*

	Location GPS Coordinates	Site Description	Weed Species	Cover Class or Number	Pattern	Infestation Size (acres)
1						
2						
3						
4						
5						
6						
7						

SITE DRAWING (Optional): Include a sketch of the infestation within the project area. Count the number of individuals if possible.

No noxious weeds on local

*Cover Class- estimated percent cover, by species, of the infestation

- 0 = No weeds found
- 1 = Less than 1% (trace)
- 2 = One to five % (low - occasional plants)
- 3 = Six to twenty-five % (moderate - scattered plants)
- 4 = Twenty-five to 100 % (high - fairly dense)

*Pattern - pattern of the infestation

- 0 = No weeds found
- 1 = Single plant or small area of many plants
- 2 = Linear
- 3 = Patchy
- 4 = Block

*Infestation Size - number of estimated acres of the infestation

- 0 = No weeds found
- 1 = Less than one acre
- 2 = One to five acres
- 3 = five or more acres

Cheatgrass canopy cover: 4

Russian thistle canopy cover: _____

Halogeton canopy cover: _____

Kochia canopy cover: _____

WBS
~~same veg~~ +
 yellow mustard
 squirrel cactus
 N+T
 globe rabbit
 shad

Additional Operator Remarks

QEP Energy Company proposes drill a vertical gas well to a depth of 11,416' to test the Mesa Verde Formation. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

Please see Onshore Order No. 1.

Please refer to QEP Energy Company Greater Deadman Bench
EIS UT-080-2003-0369V Record of Decision dated March 31, 2008.

Please be advised that QEP Energy Company agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond coverage for this well is provided by Bond No.ESB000024. The principal is QEP Energy Company via surety as consent as provided for the 43 CFR 3104.2.

CONFIDENTIAL

**QEP ENERGY COMPANY
RW 31-20B
896' FNL 1981' FEL
NWNE SECTION 20, T7S, R23E
UINTAH COUNTY, UTAH
LEASE # UTU-0569**

**ONSHORE ORDER NO. 1
MULTI – POINT SURFACE USE & OPERATIONS PLAN**

An onsite inspection was conducted for the RW 31-20B on June 8, 2011. Weather conditions were sunny at the time of the onsite. In attendance at the inspection were the following individuals:

Kevin Sadlier	Bureau of Land Management
Aaron Roe	Bureau of Land Management
Holly Villa	Bureau of Land Management
Daniel Emmett	Bureau of Land Management
Melissa Wardle	Bureau of Land Management
Stephanie Tomkinson	QEP Energy Company
Valyn Davis	QEP Energy Company
Andy Floyd	Uintah Engineering & Land Surveying

1. Existing Roads:

The proposed well site is approximately 22 miles South of Vernal, Utah.

Refer to Topo Maps A and B for location of access roads within a 2 – mile radius.

All existing roads will be maintained and kept in good repair during all phases of operation.

2. Planned Access Roads:

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

There will be a new access road approximately 898' in length, containing approximately .618 acres. The access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30. Any additional disturbance required due to intersections or sharp curves will be discussed at the on-site and approved by the BLM/VFO AO. Graveling or capping the roadbed will be performed as necessary to provide a well constructed safe road. Should conditions warrant, rock, gravel or culverts will be installed as needed. Surface disturbance and vehicular traffic will be limited to the approved location and access route or, as proposed by the Operator.

Access roads and surface disturbing activities will conform to standards outlined in the BLM and Forest Service publication: Surface Operating Standards for Oil and gas Exploration and Development, Fourth Edition 2006. The road surface and shoulders will be kept in a safe and usable condition and will be maintained in accordance with the original construction standards. All drainage ditches and culverts will be kept clear and free-flowing and will be maintained according to original construction standards. The access road disturbed area will be kept free of trash during operations. All traffic will be confined to the approved road running surface. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause excess siltation or accumulation of debris in the drainage nor shall the drainage be blocked by the roadbed. If culverts are needed, the location and size of the culverts will be proposed during the on-site. The operator will clean and maintain approved culverts as needed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Should mud holes develop, the holes shall be filled in and detours around the holes avoided. When snow is removed from the road during the winter months, the snow should be pushed outside of the borrow ditches, and the turnouts kept clear so that snowmelt will be channeled away from the road.

Refer to Topo Map B for the location of the proposed access road.

3. **Location of Existing Wells Within a 1 – Mile Radius:**

Please refer to Topo Map C.

4. **Location of Existing & Proposed Facilities:**

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

The following guidelines will apply if the well is productive.

A containment dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks). These dikes will be constructed of compacted impervious subsoil; hold 110% of the capacity of the largest tank; and, be independent of the back cut. If a Spill Prevention, Control, and Countermeasure (SPCC) Plan is required by the Environmental Protection Agency, the containment dike may be expanded to meet SPCC requirements with approval by the BLM/VFO AO. The specific APD will address additional capacity if such is needed due to environmental concerns. The use of topsoil for the construction of dikes will not be allowed.

All loading lines will be placed inside the berm surrounding the tank batteries.

All permanent (on site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a color approved by the State.

It was determined on the onsite by the BLM VFO AO that the facilities will be painted Covert Green.

Refer to Topo Map D for the location of the proposed pipeline.

The proposed surface pipeline will be constructed utilizing existing disturbed areas to minimize surface disturbance. No construction activities will be allowed outside of the proposed pipeline.

Prior to construction, the Permittee will develop a plan of installation to minimize surface disturbance. Pipe will be strung along the pipeline route with either a flatbed trailer and rubber tired backhoe or a tracked typed side boom. Where surface conditions do not allow the pipe to be strung using conventional methods, the Permittee will utilize pull sections to run the fabricated pipe through the area from central staging areas along the pipeline route.

Upon completion of stringing activities the Permittee will fabricate the pipeline on wooden skids adjacent to the centerline of the pipeline route using truck mounted welding machines. All fabricated piping will be lowered off of the wooden skids and placed along the centerline. Upon completion of all activities, the wooden skids will be removed from the pipeline route using a flatbed truck or flatbed truck and trailer.

When the surface terrain prohibits the Permittee from safely installing the pipeline along the pipeline route, grading of the route will be required. Prior to installing the pipeline in these areas a plan will be developed to safely install the pipeline while minimizing grading activities and surface disturbances. Additionally, erosion control Best Management Practices will be installed as needed prior to the start of any grading activities. Surface grading will be limited to what is needed to safely install the pipeline. Track type bulldozers and track type backhoes will be utilized for grading activities.

Upon completion of the pipeline installation, the pipeline route will be restored to the pre-disturbance surface contours.

The proposed pipeline will be a surface 10" or smaller, 4,226' in length, containing 2.91 acres.

Road Crossings

Fusion Bond or concrete coated pipe will be used for all road crossings to alleviate future corrosion.

All pipe and fittings used for road crossings will be prefabricated within the proposed pipeline route to minimize the duration of open pipe trench across the roadway. Pipe used for road crossings will be isolated on each end with a flange set and insulation kit and cathodically protected with a magnesium type anode. Adequately sized equipment will be used for minor and major road crossings. Depth of cover for minor roads will be >4' and the depth of cover for major roads will be >6'.

Prior to lowering the pipe in the trench, the Permittee will "Jeep" the pipe to locate and repair any holidays in the pipe coating. Upon lowering the pipe in the trench, 6" of bedding and a minimum of 6" of shading will be installed to protect the pipe using either native soils <1" in diameter or imported sand. Pipe trenches that extend across gravel roads will be backfilled with native soils to within 8" of the driving surface and capped with 3/4" road base. Pipe trenches that extend across asphalt paved roads will be backfilled to 4" of the driving surface with 3/4" road base and capped asphalt material.

5. Location and Type of Water Supply:

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

Water for drilling purposes would be obtained from Wonsits Valley Water Right # A 36125 (which was filed on May 7, 1964) or Red Wash Water Right # 49-2153 (which was filed on March 25, 1960). It was determined by the Fish and Wildlife Service that any water right number filed before 1989 is not depleting to the Upper Colorado River System.

6. Source of Construction Materials:

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

The use of materials under BLM jurisdiction will conform with 43 CFR 3610.2-3.

7. Methods of Handling Waste Materials:

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids including salts and chemicals will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be used at the next drill site or will be removed and disposed of at an approved waste disposal facility within 6 months after drilling is terminated. Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

Unless specified in the site specific APD, the reserve pit will be constructed on the location and will not be located within natural drainages, where a flood hazard exists

or surface runoff will or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

It will be determined at the on-site inspection if a pit liner is necessary, the reserve pit will be lined with a synthetic reinforced liner, a minimum of 20 millimeters thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place.

No trash or scrap will be disposed of in the pit.

Reserve pit leaks are considered an undesirable event and will be orally reported to the AO.

After first production, produced wastewater will be confined to the approved pit or storage tank for a period not to exceed 90 days.

After the 90 day period, the produced water will be contained in tanks on location and then hauled by truck to one of the following pre-approved disposal sites:

Red Wash Disposal well located in the SESE, Section 28, T7S, R23E,
West End Disposal located in the NESE, Section 28, T7S, R22E.

Produced water, oil, and other byproducts will not be applied to roads or well pads for the control of dust or weeds. The dumping of produced fluids on roads, well sites, or other areas will not be allowed.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site. The spills will be reported to the AO and other authorities as appropriate.

A chemical porta-toilet will be furnished with the drilling rig. The chemical porta-toilet wastes will be hauled to Ashley Valley Sewer and Water System for disposal.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. Trash will not be burned on location. All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig. All trash and waste material will be hauled to the Uintah County Landfill.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of wells. Furthermore, extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will not be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of wells within these areas. Specific APD's shall address any modifications from this policy.

8. Ancillary Facilities:

None anticipated.

9. Well Site Layout: (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram rig orientation, parking areas, and access roads, as well as the location of the following:

The reserve pit.

The stockpiled topsoil will not be used for facility berms. All brush removed from the well pad during construction will be stockpiled with topsoil.

The flare pit or flare box will be located downwind from the prevailing wind direction.

Any drainage that crosses the well location will be diverted around the location by using ditches, water diversion drains or berms. If deemed necessary at the on-site, erosion drains may be installed to contain sediments that could be produced from access roads and well locations.

A pit liner is required. A felt pit liner will be required if bedrock is encountered.

10. Fencing Requirements:

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched using a stretching device before it is attached to corner posts.

The reserve pit will be fenced on three (3) sides during drilling operations. The fourth side will be put in place when the rig moves off location. The pit will be fenced and maintained until it is backfilled. If drilling operations does not commence within 3 days, the fourth side of the fence will be installed

11. Plans for Reclamation of the Surface:

Please refer to QEP Energy Company Uinta Basin Division Reclamation Plan

Site Specific Procedures:

Site Specific Reclamation Summary:

Reclamation will follow Questar Exploration and Production Company, Uinta Basin Division's Reclamation Plan, September 2009 (Questar's Reclamation Plan) and the BLM Green River District Reclamation Guidelines.

All trash and debris will be removed from the disturbed area.

The disturbed area will be backfilled with subsoil.

Topsoil will be spread to an even, appropriate depth and disked if needed.

Water courses and drainages will be restored.

Erosion control devices will be installed where needed.

Seeding will be done in the fall, prior to ground freeze up.

Seed mix will be submitted to a BLM AO for approval prior to seeding.

Monitoring and reporting will be conducted as stated in Questar's Reclamation Plan. A reference site and weed data sheet has been established and is included in this application.

It was determined and agreed upon that there is 6" inches of top soil.

12. Surface Ownership:

Bureau of Land Management
170 South 500 East
Vernal, Utah 84078
(435) 781-4400

13. Other Information:

A Class III archaeological survey was conducted by Montgomery Archaeology Consultants. A copy of this report was submitted on May 4, 2011, **Moac Report No. 11-009** by Montgomery Archaeology Consultants. Cultural resource clearance was recommended for this location.

A Class III paleontological survey was conducted by Intermountain Paleo Consulting. A copy of this report was submitted on June 3, 2011 **IPC # 11-22** by Stephen D. Sandau. The inspection resulted in the location of no fossil resources. However, if vertebrate fossil(s) are found during construction a paleontologist should be immediately notified. QEP will provide Paleo monitor if needed.

Per the onsite on June 8, 2011, the following items were requested/ discussed.

There is a Burrowing Owl Stipulation from March 1 to August 31. No construction or drilling will commence during this period unless otherwise determined by a wildlife biologist that the site is inactive.

CONFIDENTIAL

Lessee's or Operator's Representative & Certification:

Valyn Davis
Regulatory Affairs Analyst
QEP Energy Company
11002 East 17500 South
Vernal, UT 84078
(435) 781-4331

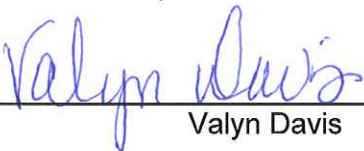
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

QEP Energy Company is considered to be the operator of the subject well.
QEP Energy Company agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104.2 for lease activities is being provided by
Bond No. ESB000024

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operations; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.


Valyn Davis

6/29/2011
Date

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

July 1, 2011

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2011 Plan of Development Red Wash Unit,
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2011 within the Red Wash Unit, Uintah County, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ MESA VERDE)		
43-047-51723	RW 32-29B Sec 29 T07S R23E 2221 FNL 1976 FEL	
43-047-51724	RW 31-20B Sec 20 T07S R23E 0896 FNL 1981 FEL	
43-047-51725	RW 23-19B Sec 19 T07S R23E 1761 FSL 1914 FWL	

This office has no objection to permitting the wells at this time.

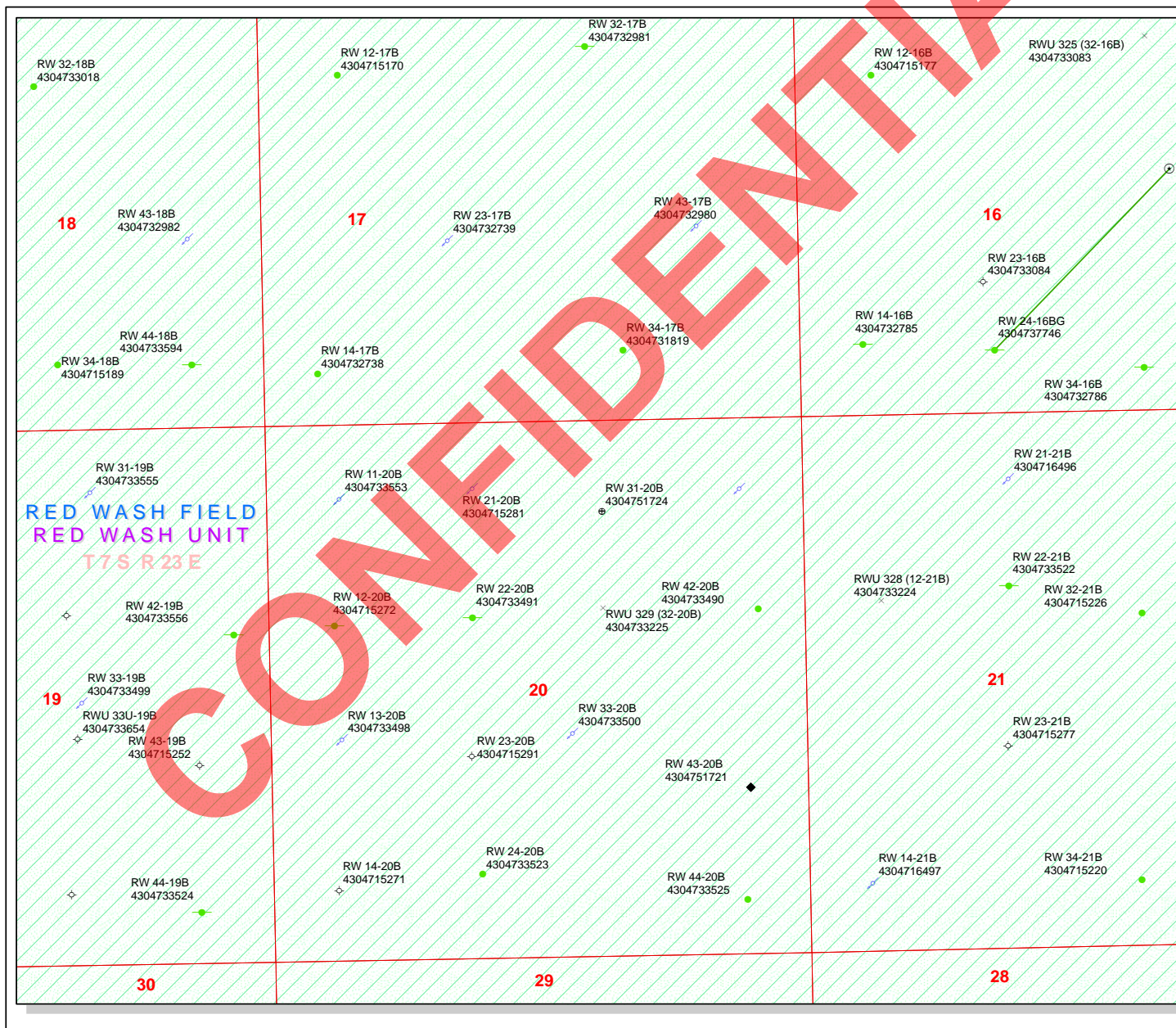
Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management,
ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2011.07.01 09:39:44 -06'00'

bcc: File - Red Wash Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:7-1-11

RECEIVED: Jul. 07, 2011



API Number: 4304751724

Well Name: RW 31-20B

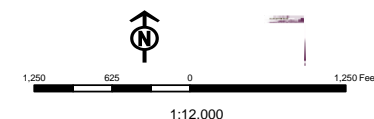
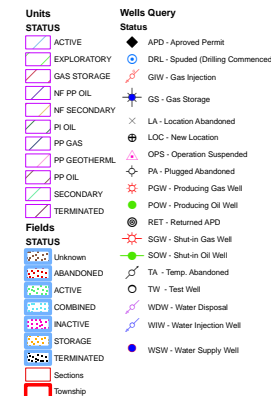
Township T0.7 . Range R2.3 . Section 20

Meridian: SLBM

Operator: QEP ENERGY COMPANY

Map Prepared:

Map Produced by Diana Mason



WORKSHEET APPLICATION FOR PERMIT TO DRILL

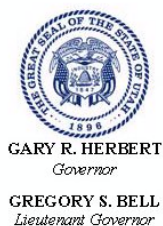
APD RECEIVED: 6/30/2011**WELL NAME:** RW 31-20B**OPERATOR:** QEP ENERGY COMPANY (N3700)**CONTACT:** Valyn Davis**API NO. ASSIGNED:** 43047517240000**PHONE NUMBER:** 435 781-4369**PROPOSED LOCATION:** NWNE 20 070S 230E**SURFACE:** 0896 FNL 1981 FEL**BOTTOM:** 0896 FNL 1981 FEL**COUNTY:** UINTAH**LATITUDE:** 40.19985**UTM SURF EASTINGS:** 640615.00**FIELD NAME:** RED WASH**LEASE TYPE:** 1 - Federal**LEASE NUMBER:** UTU0569**SURFACE OWNER:** 1 - Federal**Permit Tech Review:** ☒**Engineering Review:** ☐**Geology Review:** ☒**LONGITUDE:** -109.34794**NORTHINGS:** 4451037.00**PROPOSED PRODUCING FORMATION(S):** MESA VERDE**COALBED METHANE:** NO**RECEIVED AND/OR REVIEWED:**

- ☒ **PLAT**
- ☒ **Bond:** FEDERAL - ESB000024
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☒ **Water Permit:** A-36125/ 49-2153
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**
- Commingle Approved**

LOCATION AND SITING:

- ☐ **R649-2-3.**
- Unit:** RED WASH
- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☒ **Drilling Unit**
- Board Cause No:** Cause 187-07
- Effective Date:** 9/18/2001
- Siting:** Suspends General Siting
- ☐ **R649-3-11. Directional Drill**

Comments: Presite Completed**Stipulations:** 4 - Federal Approval - dmason**RECEIVED:** Jul. 07, 2011



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: RW 31-20B
API Well Number: 43047517240000
Lease Number: UTU0569
Surface Owner: FEDERAL
Approval Date: 7/7/2011

Issued to:

QEP ENERGY COMPANY, 11002 East 17500 South, Vernal, Ut 84078

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 187-07. The expected producing formation or pool is the MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)
- OR
- submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month

- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "J. Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 30 2011

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM

CONFIDENTIAL

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU0569
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator QEP ENERGY COMPANY Contact: VALYN DAVIS E-Mail: Valyn.Davis@qepres.com		7. If Unit or CA Agreement, Name and No. 892000761X
3a. Address 11002 EAST 17500 SOUTH VERNAL, UT 84078	3b. Phone No. (include area code) Ph: 435-781-4369 Fx: 435-781-4395	8. Lease Name and Well No. RW 31-20B
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWNE 896FNL 1981FEL 40.199814 N Lat, 109.348664 W Lon At proposed prod. zone NWNE 896FNL 1981FEL 40.199814 N Lat, 109.348664 W Lon		9. API Well No. 43-047-51724
14. Distance in miles and direction from nearest town or post office* 22		10. Field and Pool, or Exploratory RED WASH
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 896	16. No. of Acres in Lease 640.00	11. Sec., T., R., M., or Blk. and Survey or Area Sec 20 T7S R23E Mer SLB
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1300	19. Proposed Depth 11614 MD 11614 TVD	12. County or Parish UINTAH
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5581 GL	22. Approximate date work will start 12/01/2011	13. State UT
17. Spacing Unit dedicated to this well 40.00		20. BLM/BIA Bond No. on file ESB000024
23. Estimated duration 30 DAYS		

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature (Electronic Submission)	Name (Printed/Typed) VALYN DAVIS Ph: 435-781-4369	Date 06/29/2011
Title REGULATORY AFFAIRS ANALYST		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date NOV 30 2011
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Electronic Submission #111988 verified by the BLM Well Information System
For QEP ENERGY COMPANY, sent to the Vernal
Committed to AFMSS for processing by ROBIN R. HANSEN on 07/06/2011 ()

RECEIVED

DEC 14 2011

DIV. OF OIL, GAS & MINING

UDOGM

NOTICE OF APPROVAL

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

11SXSD680AE

1105 5/26/2011



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	QEP ENERGY COMPANY	Location:	NWNE, SEC. 20 T7S R23E SLM
Well No:	RW 31-20B	Lease No:	UTU-0569
API No:	43-047-51724	Agreement:	RED WASH UNIT

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov .
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**SURFACE/RECLAMATION
CONDITIONS OF APPROVAL:**

- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were brought in from areas outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established.
- Reclamation will be completed in accordance with the Questar Exploration and Production Company, Uintah Basin Division's Reclamation Plan on file with the Vernal Field Office of the BLM.
- In the event historic or archaeological resources are uncovered during construction, work will stop immediately and the appropriate BLM AO will be notified.
- If paleontologic resources are uncovered during construction activities, the operator shall immediately suspend all operations that will further disturb such resources, and immediately notify the Authorized Officer (AO). The AO will arrange for a determination of significance and, if necessary, recommend a recovery or avoidance plan.
- QEP has agreed not to construct or drill during the following dates, unless otherwise determined by the BLM wildlife biologist.

Well Name	Burrowing Owl March 1 to August 31	Red Tailed Hawk March 1 to August 15	Ferruginous Hawk March 1 to August 1
RW 12-26B	No	No	No
RW 12-30B	Yes	Yes	No
RW 21-30B	Yes	Yes	No
RW 23-19B	No	No	No
RW 23-30B	No	Yes	No
RW 31-20B	Yes	No	No
RW 32-19B	No	Yes	No
RW 32-29B	No	No	Yes
RW 34-19B	Yes	Yes	No
RW 34-24B	Yes	No	Yes
RW 43-20B	No	No	No
RW 44-25B	No	No	Yes

All internal combustion equipment would be kept in good working order.

Water or other approved dust suppressants would be used at construction sites and along roads, as determined appropriate by the Authorized Officer.

Open burning of garbage or refuse would not occur at well sites or other facilities.

Drill rigs would be equipped with Tier II or better diesel engines.

Low bleed pneumatics would be installed on separator dump valves and other controllers. The use of low bleed pneumatics would result in a lower emission of VOCs.

During completion, flaring would be limited as much as possible. Production equipment and gathering lines would be installed as soon as possible.

Well site telemetry would be utilized as feasible for production operations.

- Following well plugging and abandonment, the location, access roads, pipelines, and other facilities shall be reclaimed. All disturbed surfaces shall be reshaped to approximate the original contour; the top soil respread over the surface; and, the surface revegetated. The surface of approved staging areas where construction activities did not occur may require disking or ripping and reseeding.
- The best method to avoid entrainment is to pump from an off-channel location – one that does not connect to the river during high spring flows. An infiltration gallery constructed in a BLM and Service approved location is best.
- If the pump head is located in the river channel where larval fish are known to occur, the following measures apply:

- do not situate the pump in a low-flow or no-flow area as these habitats tend to concentrate larval fishes;
 - limit the amount of pumping, to the greatest extent possible, during that period of the year when larval fish may be present (April 1 to August 31); and
 - limit the amount of pumping, to the greatest extent possible, during the pre-dawn hours as larval drift studies indicate that this is a period of greatest daily activity.
- Screen all pump intakes with 3/32" mesh material.
 - Approach velocities for intake structures will follow the National Marine Fisheries Service's document "Fish Screening Criteria for Anadromous Salmonids". For projects with an in-stream intake that operate in stream reaches where larval fish may be present, the approach velocity will not exceed 0.33 feet per second (ft/s).
 - Report any fish impinged on the intake screen to the Service (801.975.3330) and the Utah Division of Wildlife Resources:

Northeastern Region
152 East 100 North, Vernal, UT 84078
Phone: (435) 781-9453

DOWNHOLE PROGRAM CONDITIONS OF APPROVAL

SITE SPECIFIC DOWNHOLE COAs:

Site Specific Drilling Plan COA's:

1. Gamma ray Log shall be run from Total Depth to Surface.

Variances Granted:

Air Drilling

1. Properly lubricated and maintained rotating head. Variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
2. Blooie line discharge 100' from the well bore. Variance granted for blooie line discharge to be 50' to 70' from the well bore.
3. Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for truck/trailer mounted air compressors located 50' from the well bore.
4. In lieu of mud products on location, operator will fill a 400 bbl tank with water for the kill medium.
5. Automatic igniter. Variance granted for igniter, a diffuser will be used instead. Operator will mount a deflector at the end of the blooie line to change direction and reduce the velocity of the cuttings flow to the reserve pit.
6. Flare pit. Variance granted, there is no need of a flare during the drilling of the surface hole.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

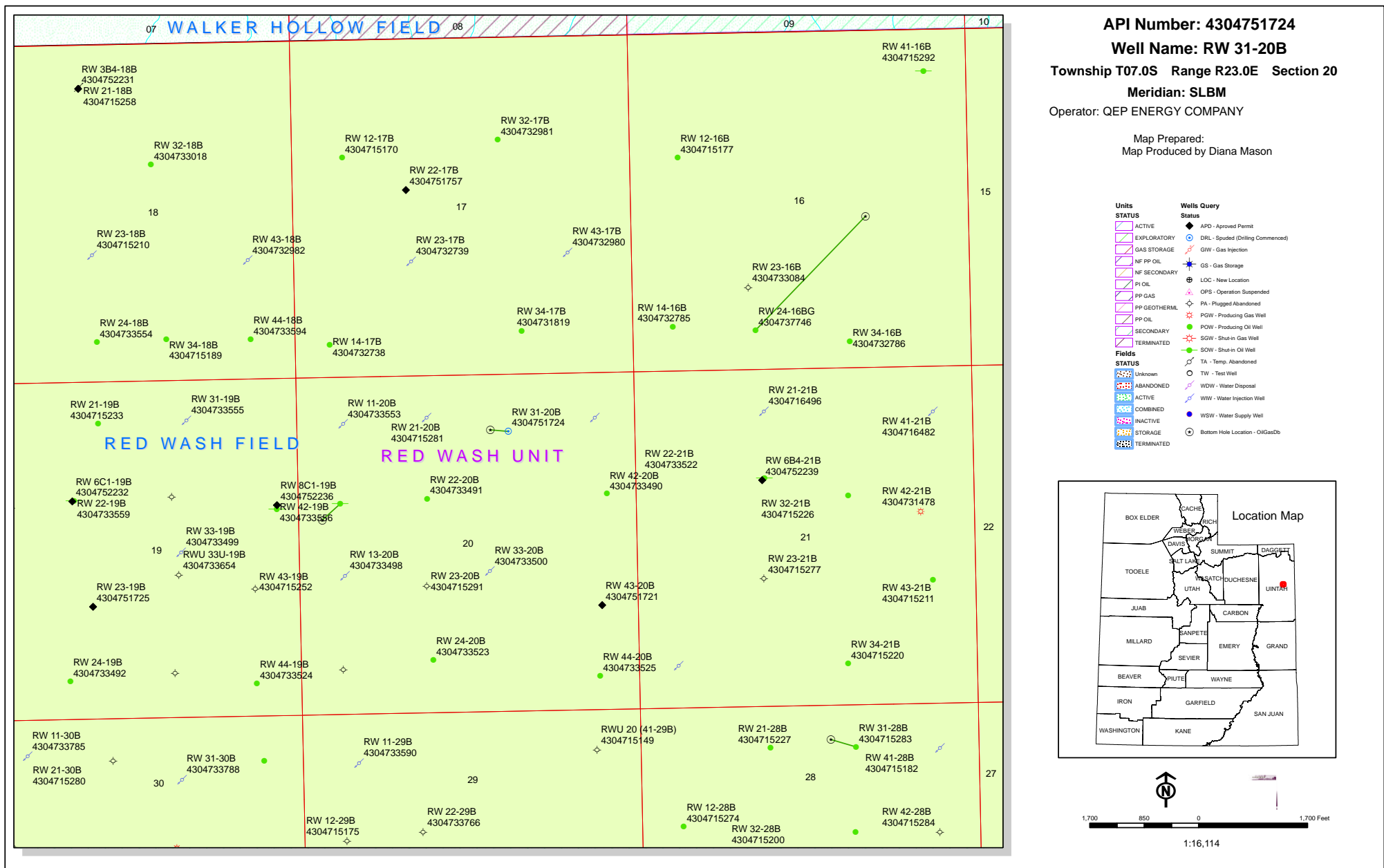
- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU0569
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: QEP ENERGY COMPANY		7. UNIT or CA AGREEMENT NAME: RED WASH
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078		8. WELL NAME and NUMBER: RW 31-20B
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0896 FNL 1981 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 20 Township: 07.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047517240000
9. FIELD and POOL or WILDCAT: RED WASH		COUNTY: UINTAH
STATE: UTAH		
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 6/20/2012	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. ON JUNE 20, 2012, SET 40' OF 14" CONDUCTOR PIPE AND CEMENTED WITH READY MIX.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 26, 2012		
NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A	DATE 6/25/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 0896 FNL 1981 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 20 Township: 07.0S Range: 23.0E Meridian: S		9. FIELD and POOL or WILDCAT: RED WASH COUNTY: Uintah STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/18/2012 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%; border: none;"> <tr> <td style="vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. QEP ENERGY COMPANY WOULD LIKE TO OPTIMIZE THE BOTTOM HOLE SPACING OF THE MESA VERDE DEVELOPMENT, THEREFORE, QEP ENERGY COMPANY WOULD LIKE TO DRILL THIS WELL DIRECTIONALLY.					
Approved by the Utah Division of Oil, Gas and Mining Date: June 28, 2012 By:					
NAME (PLEASE PRINT) Valyn Davis		PHONE NUMBER 435 781-4369			
SIGNATURE N/A		TITLE Regulatory Affairs Analyst DATE 6/18/2012			





QEP Energy Company

11002 East 17500 South
Vernal, UT 84078
Telephone 435-781-4331
Fax 435-781-4395

June 18, 2012

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

RE: Directional Drilling R649-3-11
Red Wash Unit

RW 31-20B

896' FNL 1981' FEL, NWNE, Section 20, T7S, R23E (Surface)

872' FNL 2261' FEL, NWNE, Section 20, T7S, R23E (Bottom Hole)

Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of QEP Energy Company Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649 -3-11 pertaining to the location and drilling of a directional well.

QEP Energy Company would like to optimize the bottom hole spacing of the Mesa Verde development; therefore, QEP Energy Company would like to drill this well directionally.

Furthermore, QEP Energy Company certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information QEP Energy Company requests the permit be granted pursuant to Rule R649-3-11.

Sincerely,

QEP Energy Company

Valyn Davis
Regulatory Affairs Analyst

T7S, R23E, S.L.B.&M.

QEP ENERGY COMPANY

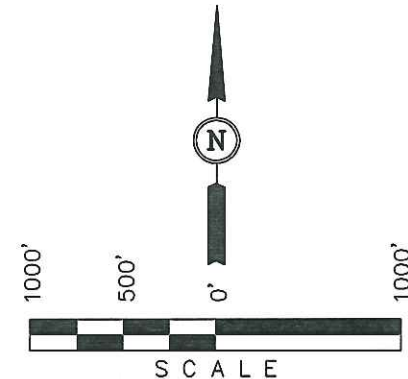
Well location, RW #31-20B, located as shown in the NW 1/4 NE 1/4 of Section 20, T7S, R23E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 20EAM LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ROBERT L. KAY
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

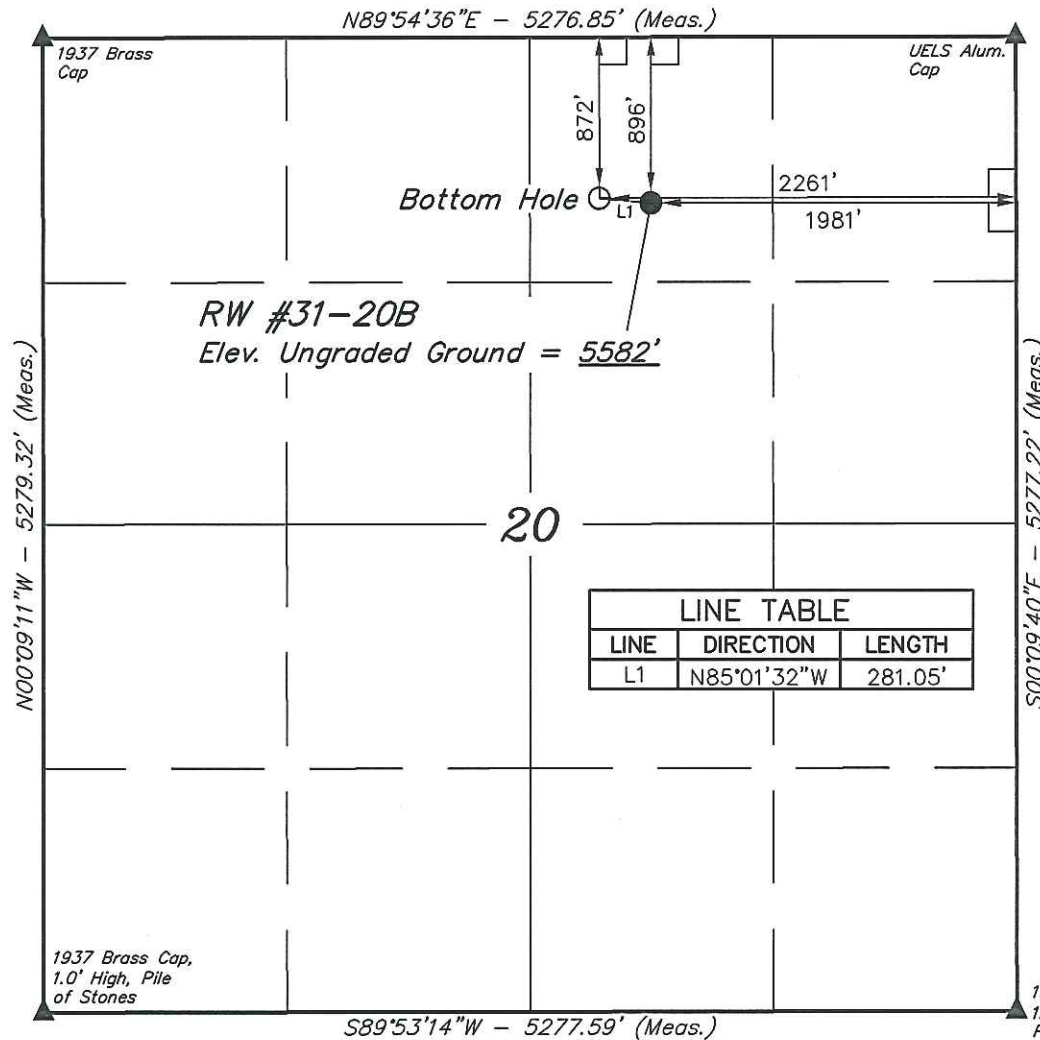
REV: 05-25-12 C.A.G.

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°11'59.57" (40.199881)	LATITUDE = 40°11'59.33" (40.199814)
LONGITUDE = 109°20'58.80" (109.349667)	LONGITUDE = 109°20'55.19" (109.348664)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°11'59.70" (40.199917)	LATITUDE = 40°11'59.46" (40.199850)
LONGITUDE = 109°20'56.34" (109.348983)	LONGITUDE = 109°20'52.73" (109.347981)





QEP Energy Company

QEP ENERGY (UT)

Red Wash

RW 31-20B

RW 31-20B

Original Hole

Plan: Plan ver.0

Standard Planning Report

08 May, 2012



QEP Energy Company



QEP Resources, Inc.
Planning Report



Database:	EDMDB_QEP	Local Co-ordinate Reference:	Well RW 31-20B
Company:	QEP ENERGY (UT)	TVD Reference:	RKB @ 5593.20usft (AZTEC 781)
Project:	Red Wash	MD Reference:	RKB @ 5593.20usft (AZTEC 781)
Site:	RW 31-20B	North Reference:	True
Well:	RW 31-20B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan ver.0		

Project	Red Wash		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		Using geodetic scale factor

Site		RW 31-20B			
Site Position:		Northing:	7,248,734.175 usft	Latitude:	40.199814
From:	Lat/Long	Easting:	2,241,274.410 usft	Longitude:	-109.348664
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.38 °

Well	RW 31-20B					
Well Position	+N/-S	-0.01 usft	Northing:	7,248,734.167 usft	Latitude:	40.199814
	+E/-W	0.00 usft	Easting:	2,241,274.411 usft	Longitude:	-109.348664
Position Uncertainty		0.00 usft	Wellhead Elevation:	5,579.20 usft	Ground Level:	5,579.20 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/8/2012	10.92	66.04	52,364

Design	Plan ver.0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	274.97

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,553.09	15.06	287.10	4,544.44	28.94	-94.06	2.00	2.00	0.00	287.10	
5,239.64	15.06	287.10	5,207.41	81.41	-264.58	0.00	0.00	0.00	0.00	
6,243.75	0.00	287.97	6,200.00	120.00	-390.00	1.50	-1.50	0.00	180.00	
8,956.75	0.00	287.97	8,913.00	120.00	-390.00	0.00	0.00	0.00	287.97	
9,190.09	3.50	131.00	9,146.19	115.33	-384.62	1.50	1.50	0.00	131.00	
11,461.14	3.50	131.00	11,413.00	24.37	-279.99	0.00	0.00	0.00	0.00	



QEP Resources, Inc.
Planning Report



Database:	EDMDB_QEP	Local Co-ordinate Reference:	Well RW 31-20B
Company:	QEP ENERGY (UT)	TVD Reference:	RKB @ 5593.20usft (AZTEC 781)
Project:	Red Wash	MD Reference:	RKB @ 5593.20usft (AZTEC 781)
Site:	RW 31-20B	North Reference:	True
Well:	RW 31-20B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan ver.0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,553.09	15.06	287.10	4,544.44	28.94	-94.06	96.22	2.00	2.00	0.00
5,239.64	15.06	287.10	5,207.41	81.41	-264.58	270.64	0.00	0.00	0.00
6,243.75	0.00	287.97	6,200.00	120.00	-390.00	398.94	1.50	-1.50	0.00
8,956.75	0.00	287.97	8,913.00	120.00	-390.00	398.94	0.00	0.00	0.00
9,190.09	3.50	131.00	9,146.19	115.33	-384.62	393.17	1.50	1.50	0.00
11,461.14	3.50	131.00	11,413.00	24.37	-279.99	281.05	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
RW 31-20B (02C1-20B)	0.00	0.00	8,913.00	68.85	-332.76	7,248,794.991	2,240,940.116	40.200003	-109.349855
- plan misses target center by 76.80usft at 8959.10usft MD (8915.34 TVD, 120.00 N, -390.00 E)									
- Circle (radius 100.00)									

Casing Points

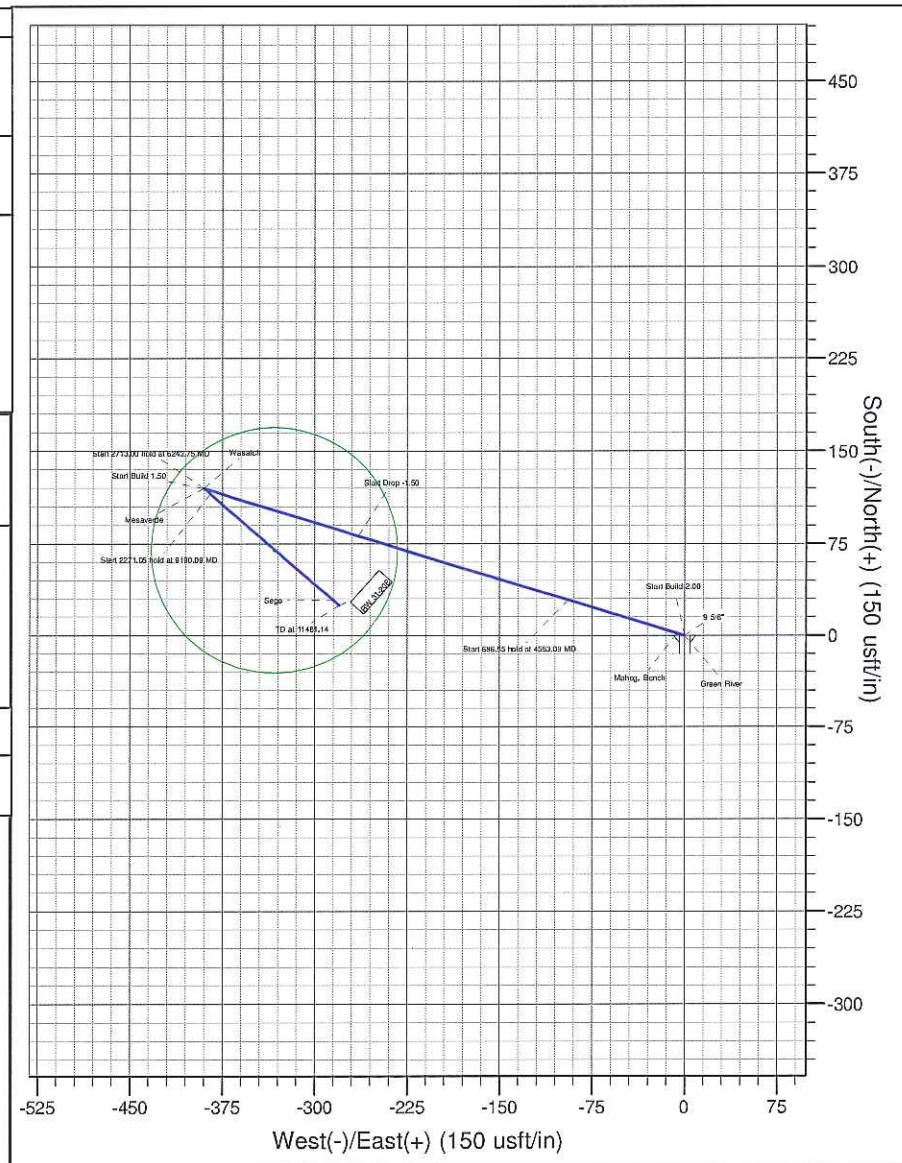
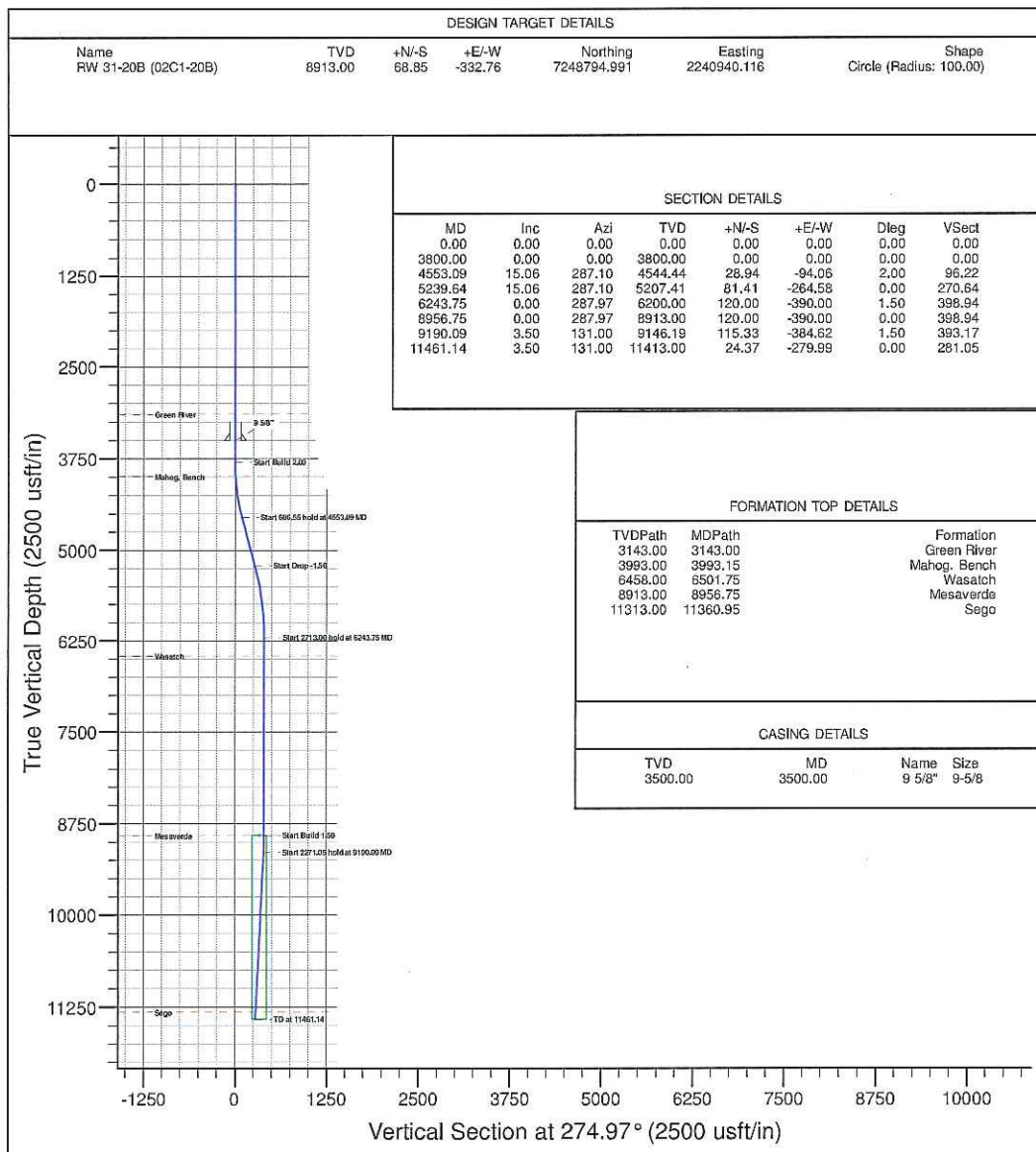
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
3,500.00	3,500.00	9 5/8"	9-5/8	12-1/4

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,143.00	3,143.00	Green River		0.00	
3,993.15	3,993.00	Mahog. Bench		0.00	
6,501.75	6,458.00	Wasatch		0.00	
8,956.75	8,913.00	Mesaverde		0.00	
11,360.95	11,313.00	Sego		0.00	



WELL DETAILS: RW 31-20B							REFERENCE INFORMATION		PROJECT DETAILS: Red Wash	
Ground Level: 5579.20 +N/-S 0.00 +E/-W 0.00 Northing 7248734.167 Easting 2241274.411 Latitude 40.199814 Longitude -109.348664 Slot							Co-ordinate (N/E) Reference: Well RW 31-20B, True North Vertical (TVD) Reference: RKB @ 5593.20usft (AZTEC 781) Section (VS) Reference: Slot - (0.00N, 0.00E) Measured Depth Reference: RKB @ 5593.20usft (AZTEC 781) Calculation Method: Minimum Curvature		Geodetic System: US State Plane 1983 Datum: North American Datum 1983 Ellipsoid: GRS 1980 Zone: Utah Central Zone System Datum: Mean Sea Level	



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: QEP ENERGY COMPANY Operator Account Number: N 3700
Address: 11002 EAST 17500 SOUTH
city VERNAL
state UT zip 84078 Phone Number: (435) 781-4369

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751724	RW 31-20B		NWNE	20	7S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
D	999999	18478	6/20/2012		7-18-2012		
Comments: CHANGE TO WMMFD BHL: none Confidential							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

RECEIVED

JUL 16 2012

Div. of Oil, Gas & Mining

Valyn Davis

Name (Please Print)

Signature

Regulatory Affairs Analyst

Title

7/16/2012

Date

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU0569
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: QEP ENERGY COMPANY		7. UNIT or CA AGREEMENT NAME: RED WASH
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078		8. WELL NAME and NUMBER: RW 31-20B
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0896 FNL 1981 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 20 Township: 07.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047517240000
9. FIELD and POOL or WILDCAT: RED WASH		COUNTY: Uintah
STATE: UTAH		
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> APD EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/3/2012	OTHER: <input style="width: 100px;" type="text"/>	
<input type="checkbox"/> SPUD REPORT Date of Spud:		
<input type="checkbox"/> DRILLING REPORT Report Date:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THIS WELL COMMENCED PRODUCTION ON AUGUST 3, 2012 @ 9:00 a.m.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY August 07, 2012		
NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A	DATE 8/6/2012	

CONFIDENTIAL

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU0569
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR: QEP ENERGY COMPANY		7. UNIT or CA AGREEMENT NAME RED WASH
3. ADDRESS OF OPERATOR: 11002 E. 17500 S. CITY VERNAL STATE UT ZIP 84078		8. WELL NAME and NUMBER: RW 31-20B
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: NWNE, 896' FNL, 1981' FEL AT TOP PRODUCING INTERVAL REPORTED BELOW: NWNE, 853' FNL, 2314' FEL AT TOTAL DEPTH: NWNE, 879' FNL, 2295' FEL		9. API NUMBER: 4304751724
14. DATE SPUDDED: 6/20/2012		10. FIELD AND POOL, OR WILDCAT RED WASH
15. DATE T.D. REACHED: 7/19/2012		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 20 7S 23E
16. DATE COMPLETED: 8/2/2012		12. COUNTY UINTAH
ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>		13. STATE UTAH
17. ELEVATIONS (DF, RKB, RT, GL): 5593 KB		
18. TOTAL DEPTH: MD 11,703 TVD 11,639	19. PLUG BACK T.D.: MD TVD	20. IF MULTIPLE COMPLETIONS, HOW MANY? *
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) QUAD COMBO, CBL		21. DEPTH BRIDGE MD PLUG SET: TVD
23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)		

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
12.25	9.625 N-80	40	0	4,058		875			
7.875	4.5 HCR	11.6	0	11,696		1,788	686	1600	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.375	11,520							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) MESA VERDE	10,956	11,554			10,956 11,554	.35	144	Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
10,956 - 11,554	57 BBLS 15% HCL, 10,603 BBLS SLICKWATER, 2,105 SXS 30/50 SAND

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☒ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☒ OTHER: **OPS SUMMARY**

30. WELL STATUS:

PGW

RECEIVED

SEP 20 2012

I. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 8/3/2012	TEST DATE: 8/5/2012	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL: 8	GAS – MCF: 1,726	WATER – BBL: 335	PROD. METHOD: FLOWS
CHOKE SIZE: 20/64	TBG. PRESS. 1,451	CSG. PRESS. 2,149	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	3,213
				MAHOGANY	4,026
				WASATCH	6,205
				MESA VERDE	9,221
				SEGO	11,602

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) BENNA R. MUTH

TITLE CONTRACTOR

SIGNATURE

Benna R. Muth

DATE 9/17/2012

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation

- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: QEP ENERGY COMPANY Operator Account Number: N 3700
Address: 11002 EAST 17500 SOUTH
city VERNAL
state UT zip 84078 Phone Number: (435) 781-4369

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751724	RW 31-20B		NWNE	20	7S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
D	18478	18478	6/20/2012		8/3/2012		
Comments: CHANGE TO WMMFD BHL: nwnr 11/9/2012 CONFIDENTIAL							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Valyn Davis

Name (Please Print)

Signature

Regulatory Affairs Analyst

Title

7/16/2012

Date

RECEIVED

NOV 07 2012

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU0569
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: QEP ENERGY COMPANY		7. UNIT or CA AGREEMENT NAME: RED WASH
3. ADDRESS OF OPERATOR: 11002 East 17500 South, Vernal, Ut, 84078		8. WELL NAME and NUMBER: RW 31-20B
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0896 FNL 1981 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 20 Township: 07.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047517240000
9. FIELD and POOL or WILDCAT: RED WASH		COUNTY: Uintah
STATE: UTAH		
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 1/14/2015	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>	
<input type="checkbox"/> DRILLING REPORT Report Date:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. QEP ENERGY COMPANY REQUESTS APPROVAL TO RECOMPLETE THE RW 31-20B BY ADDING PERFORATIONS TO THE MESA VERDE FORMATION. SEE ATTACHED PROCEDURES.		
Accepted by the Utah Division of Oil, Gas and Mining Date: January 20, 2015 By: <i>[Signature]</i>		
NAME (PLEASE PRINT) Benna Muth	PHONE NUMBER 435 781-4320	TITLE Regulatory Assistant
SIGNATURE N/A	DATE 1/14/2015	

QEP Energy requests approval to recompleat the RW 31-20B by adding perforations to the Mesaverde formation as follows:

1. Set a CFP at 10800'.
2. Stage 1:
 - a. 10750'-10752', 3spf, frac with slick water.
 - b. 10702'-10708', 3spf, frac with slick water.
 - c. 10665'-10667', 3spf, frac with slick water.
3. Set a CFP at 10550'.
4. Stage 2:
 - a. 10486'-10490', 3spf, frac with slick water.
 - b. 10450'-10454', 3spf, frac with slick water.
 - c. 10400'-10404', 3spf, frac with slick water.
 - d. 10377'-10381', 3spf, frac with slick water.
5. Set a CFP at 10350'.
6. Stage 3:
 - a. 10300'-10305', 3spf, frac with slick water.
 - b. 10269'-10274', 3spf, frac with slick water.
 - c. 10251'-10255', 3spf, frac with slick water.
 - d. 10226'-10228', 3spf, frac with slick water.
7. Drill up top two plugs and return well to production.
8. Return to drill up the bottom plug and restore existing production after the frac fluid is recovered.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU0569
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: QEP ENERGY COMPANY		7. UNIT or CA AGREEMENT NAME: RED WASH
3. ADDRESS OF OPERATOR: 11002 East 17500 South, Vernal, Ut, 84078		8. WELL NAME and NUMBER: RW 31-20B
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0896 FNL 1981 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 20 Township: 07.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047517240000
9. FIELD and POOL or WILDCAT: RED WASH		COUNTY: UINTAH
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 2/12/2015	<input type="checkbox"/> ALTER CASING
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS
	<input type="checkbox"/> CHANGE WELL STATUS
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS
	<input type="checkbox"/> DEEPEN
	<input type="checkbox"/> FRACTURE TREAT
	<input type="checkbox"/> OPERATOR CHANGE
	<input type="checkbox"/> PLUG AND ABANDON
	<input type="checkbox"/> PRODUCTION START OR RESUME
	<input type="checkbox"/> RECLAMATION OF WELL SITE
	<input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> WATER SHUTOFF
	<input type="checkbox"/> SI TA STATUS EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION
	<input type="checkbox"/> OTHER

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

QEP Energy Company re-perforated the RW 31-20B Mesaverde formation. A summary of the additional perforations is as follows: Stage 1 – 10377’-10490’ (52 shots), Stage 2 – 10663’-10959’ (43 shots), Stage 3 – 10966’-11373’ (55 shots), Stage 4 – 11424’-11554’ (87 shots). The frac used 17,136 bbls slickwater and 420,650 lbs. of proppant bulk sand. The well was returned to production on 2/12/2015. Please see the attached perforation summary and daily report.

**Accepted by the
Utah Division of
Oil, Gas and Mining**

FOR RECORD ONLY

March 27, 2015

NAME (PLEASE PRINT) Laura Abrams	PHONE NUMBER 303 260-6745	TITLE Sr. Regulatory Affairs Analyst
SIGNATURE N/A	DATE 3/23/2015	



Daily Summary

Well Name: RW 31-20B

API 43-047-51724	Surface Legal Location S20-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type S-Well
Unique Well ID UT101985	Ground Elevation (ft) 5,579.2	Casing Flange Elevation (ft) 5,579.20	Current KB to GL (ft) 14.00	KB to CF (ft) 14.00	Spud Date 7/3/2012 03:30
					Dry Hole TD Date 7/24/2012 12:00
RPT #	Start Date	End Date	Summary		
1	1/30/2015	1/31/2015	PULLED BUMPER SPRING		
2	2/2/2015	2/3/2015	02/02/2015: Road rig to location spot in equipment. Try to spot in rig w/ no success. Location is to muddy. SDFN		
3	2/3/2015	2/4/2015	02/03/2015: MIRU, ND well head. NU bops, Try to pull tbq hanger. Pulled 35k, rig stink in mud. Rig down. Pull forward; Spot in w/ mat and board, Rig back up, RU floor and tbq equipment. Pull tbq hanger, POOH w/ tbq. SWIFN w/ EOT @ 7576' Pump 20 bbl's of 2 % KCL to control gas.		
4	2/4/2015	2/5/2015	02/04/2015: . Bleed well down. Pump 15 bbls tbq kill, POOH w/ remaining tbq. Killing well as needed. RU Cutters Wire Line Service. RIH w/ 3.70 gauge ring to 10850' RIH and set 10K CFP @ 10830' Per Lone Wolf CBL Dated 7/30/2012 RD WL. RIH w/ SN and standing valve in place. w/LD 181 jts, RIH w/ 181 jts, Pressure test tbq to 2000# psi. Good test. Retrieve standing valve. LD 181 jt RIH w/ SN and standing valve in place and 41 jts SWIFN w/ EOT @ 1299'		
5	2/5/2015	2/6/2015	02/05/2015: RIH w/ 140 jts, Fill tbq w/ 22 bbl's Pressure test to 2000# psi. Good test. Try twice to retrieve standing valve w/ no success. LD w/ 180 jts of 2 3/8 L-80 tbq. ND bop's NU frac tree. RU Cutters WL, RIH set 15k CFP @ 10822' Per Lone wolf CBL Dated: 7/30/12, fill casing w/ 160 bbl's of 2% KCL. Pressure test frac tree and casing to 8550#psi. Good test and charted. RIH w. 3 1/8 guns RIH Shot Perfs @ 10748 - 50, 10700 - 06, 10663-65, Per Lone Wolf CBL, GR, CCL, correlated back to Thu Bit Spectral Density Dual Spaced, neutron, GR memory long. Dated 7/22/12, Rack out equipment. RDMO. Well is shut in		
6	2/9/2015	2/10/2015	CONTRACT WORK/ROCKWATER		
7	2/10/2015	2/11/2015	Finish laying "Rock Water" water transfer line. Start filling frac tanks (15,000 bbls to fill). MIRU Cutters ELU and HES frac equipment. Start pre-fill HES Mtn movers. Prep to start frac in morning. Waiting on re-completion (Est. frac date 2-11-2015).		
8	2/11/2015	2/12/2015	Finish filling frac tanks. Prime up and test HES lines to 9,500 psi. Good test. Frac stage #1. Plug, perf and frac stages #2 and #3. MU and RIH with kill plug setting at 7,000'. POOH. Bleed pressure off and SIW. RDMO HES frac equipment and Cutters ELU. Turn well over to production group.		
9	2/12/2015	2/13/2015	02/12/2015: . MIRU, Spot in equipment. Bleed well down. ND frac tree, NU bop's Mud cross, annular bag, RU floor and tbq equipment, RIH w/ Pump off bit sub w/ 3 5/8 Hurricane mill, 1.81 F nipple. Talley, Rabbit, RIH w/ tbq to Kill plug @ 7000' Drill out kill plug Took 1300# kick, Drill up in 20 min's Continue to RIH w/ 26 jts, Switch out trailers, SWIFN EOT @ 7872' Turn well over to Weatherford Flow Back.		
10	2/13/2015	2/14/2015	02/13/2015: FCP = 650# psi. ON 25/64, Flowing 100bbl's per hr. SITP = 0# psi. Continue to RIH w/ tbq Tag 1st frac plug @ 10334' Drill up in 35 mins, RIH and drill up 2nd frac plug @ 10522' RIH and tag fill @ 10768 Clean out 54' of sand to 10822' roll hole clean LD 7 jts MU tbq hanger. Land well w/ EOT @ 10647' ND bop's NU well head. Turn well over to production, RDMO		
11	2/18/2015	2/19/2015	CONTRACT WORK		
12	3/4/2015	3/5/2015	03/04/2015: Road rig 7 miles, MIRU, FCP = 550# psi. SITP = 1100#psi. Bleed of tbq. ND well head. NU bop's Pull tbq hanger. RIH w/ 6 jts Tag @ 10822' RU swivel, Drill out Plugs @ 10822' and 10830' Each in 45 min's, RIH w/ 22 jts tag @ 11545' LD 2 jts, MU hanger, Land well w/ EOT @ 11512', MU sub to tbq. Shut in piperams and annular, shut in tbq. Casing is up sells Line, Rack out swivel and tbq equipment. SDFN.		
13	3/5/2015	3/6/2015	03/05/2015: ND bop's, Drop ball, NU well head. Pump off bit w/ 55 bbls 10 bbls pass vol. No pressure. Turn well over to production. RDMO		



Perforations

Well Name: RW 31-20B

API 43-047-51724		Surface Legal Location S20-T7S-R23E		Field Name RED WASH		County UINTAH		State UTAH		Well Configuration Type S-Well	
Unique Well ID UT101985		Gr Elev (ft) 5,579.2		Current Elevation 5,593.20, <elvothernote>		KB to CF (ft) 14.00		Spud Date 7/3/2012 03:30		Dry Hole TD Date 7/24/2012 12:00	
										Total Depth (All) (ft, KB) ORIGINAL HOLE - 11,703.0	

S-Well - ORIGINAL HOLE, 3/23/2015 4:09:19 PM											
Vertical schematic (actual)											
<p>10,377.0-10,381.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 13 Phasing: 90</p> <p>10,400.0-10,404.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 13 Phasing: 90</p> <p>10,450.0-10,454.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 13 Phasing: 90</p> <p>10,486.0-10,490.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 13 Phasing: 90</p> <p>10,663.0-10,665.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 7 Phasing: 90</p> <p>10,700.0-10,706.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 19 Phasing: 90</p> <p>10,748.0-10,750.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 7 Phasing: 90</p> <p>10,966.0-10,969.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: OPEN Shot Dens: 3.0 Calculated Shot Total: 10 Phasing: 120</p> <p>10,966.0-10,974.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: OPEN Shot Dens: 3.0 Calculated Shot Total: 25 Phasing: 120</p> <p>10,978.0-10,980.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: OPEN Shot Dens: 3.0 Calculated Shot Total: 7 Phasing: 120</p> <p>11,261.0-11,264.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: OPEN Shot Dens: 3.0 Calculated Shot Total: 10 Phasing: 120</p> <p>11,369.0-11,373.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: OPEN Shot Dens: 3.0 Calculated Shot Total: 13 Phasing: 120</p> <p>11,424.0-11,436.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: OPEN Shot Dens: 3.0 Calculated Shot Total: 37 Phasing: 120</p> <p>11,524.0-11,538.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 43 Phasing: 120</p> <p>11,552.0-11,554.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 7 Phasing: 120</p>											

Perforations											
Date 2/11/2015		Completion MESAVERDE, ORIGINAL HOLE		Top Depth (ft, KB) 10,377.0		Bottom Depth (ft, KB) 10,381.0					
Perforation Company Cutters Wire Line Group		Conveyance Method		Gun Size (in) 3 1/8		Carrier Make					
Shot Density (shots/ft) 3.0		Charge Type		Phasing (°) 90							
Orientation		Orientation Method									
Over/Under Balanced	P Over/Under (psi) 0.0	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi) 0.0						
Reference Log											
Calculated Shot Total										13	

Perforation Statuses											
Date	Status	Com									
Date 2/11/2015		Completion MESAVERDE, ORIGINAL HOLE		Top Depth (ft, KB) 10,400.0		Bottom Depth (ft, KB) 10,404.0					
Perforation Company Cutters Wire Line Group		Conveyance Method		Gun Size (in) 3 1/8		Carrier Make					
Shot Density (shots/ft) 3.0		Charge Type		Phasing (°) 90							
Orientation		Orientation Method									
Over/Under Balanced	P Over/Under (psi) 0.0	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi) 0.0						
Reference Log											
Calculated Shot Total										13	

Perforation Statuses											
Date	Status	Com									
Date 2/11/2015		Completion MESAVERDE, ORIGINAL HOLE		Top Depth (ft, KB) 10,450.0		Bottom Depth (ft, KB) 10,454.0					
Perforation Company Cutters Wire Line Group		Conveyance Method		Gun Size (in) 3 1/8		Carrier Make					
Shot Density (shots/ft) 3.0		Charge Type		Phasing (°) 90							
Orientation		Orientation Method									
Over/Under Balanced	P Over/Under (psi) 0.0	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi) 0.0						
Reference Log											
Calculated Shot Total										13	

Perforation Statuses											
Date	Status	Com									
Date 2/11/2015		Completion MESAVERDE, ORIGINAL HOLE		Top Depth (ft, KB) 10,486.0		Bottom Depth (ft, KB) 10,490.0					
Perforation Company Cutters Wire Line Group		Conveyance Method		Gun Size (in) 3 1/8		Carrier Make					
Shot Density (shots/ft) 3.0		Charge Type		Phasing (°) 90							
Orientation		Orientation Method									
Over/Under Balanced	P Over/Under (psi) 0.0	FL MD Before (ft, KB)	FL MD After (ft, KB)	P Surf Init (psi)	P Final Surf (psi) 0.0						
Reference Log											
Calculated Shot Total										13	



Perforations

Well Name: RW 31-20B

API 43-047-51724	Surface Legal Location S20-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type S-Well
Unique Well ID UT101985	Gr Elev (ft) 5,579.2	Current Elevation 5,593.20, <elvothernote>	KB to CF (ft) 14.00	Spud Date 7/3/2012 03:30	Dry Hole TD Date 7/24/2012 12:00
S-Well - ORIGINAL HOLE, 3/23/2015 4:09:32 PM			Total Depth (All) (ft, KB) ORIGINAL HOLE - 11,703.0		

Vertical schematic (actual)		Date	Status	Com
		2/5/2015	Completion	MESAVERDE, ORIGINAL HOLE
10,377.0-10,381.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 13 Phasing: 90 10,400.0-10,404.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 13 Phasing: 90 10,450.0-10,454.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 13 Phasing: 90 10,485.0-10,490.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 13 Phasing: 90 10,663.0-10,665.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 7 Phasing: 90 10,700.0-10,706.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 19 Phasing: 90 10,748.0-10,750.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 7 Phasing: 90 10,966.0-10,969.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: OPEN Shot Dens: 3.0 Calculated Shot Total: 10 Phasing: 120 10,966.0-10,974.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: OPEN Shot Dens: 3.0 Calculated Shot Total: 25 Phasing: 120 10,978.0-10,980.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: OPEN Shot Dens: 3.0 Calculated Shot Total: 7 Phasing: 120 11,261.0-11,264.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: OPEN Shot Dens: 3.0 Calculated Shot Total: 10 Phasing: 120 11,369.0-11,373.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: OPEN Shot Dens: 3.0 Calculated Shot Total: 13 Phasing: 120 11,424.0-11,436.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: OPEN Shot Dens: 3.0 Calculated Shot Total: 37 Phasing: 120 11,524.0-11,538.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 43 Phasing: 120 11,552.0-11,554.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 7 Phasing: 120		2/5/2015	Completion	MESAVERDE, ORIGINAL HOLE
		Perforation Company	Conveyance Method	Gun Size (in)
		Cutters Wire Line Group		3 1/8
		Shot Density (shots/ft)	Charge Type	Phasing (°)
		3.0		90
		Orientation	Orientation Method	
		Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)
			0.0	FL MD After (ft, KB)
				P Surf Init (psi)
				0.0
				P Final Surf (psi)
				0.0
		Reference Log		
		Calculated Shot Total		
		7		
Perforation Statuses				
		Date	Status	Com
		2/5/2015	Completion	MESAVERDE, ORIGINAL HOLE
		Perforation Company	Conveyance Method	Gun Size (in)
		Cutters Wire Line Group		3 1/8
		Shot Density (shots/ft)	Charge Type	Phasing (°)
		3.0		90
		Orientation	Orientation Method	
		Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)
			0.0	FL MD After (ft, KB)
				P Surf Init (psi)
				0.0
				P Final Surf (psi)
				0.0
		Reference Log		
		Calculated Shot Total		
		19		
Perforation Statuses				
		Date	Status	Com
		2/5/2015	Completion	MESAVERDE, ORIGINAL HOLE
		Perforation Company	Conveyance Method	Gun Size (in)
		Cutters Wire Line Group		3 1/8
		Shot Density (shots/ft)	Charge Type	Phasing (°)
		3.0		90
		Orientation	Orientation Method	
		Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)
			0.0	FL MD After (ft, KB)
				P Surf Init (psi)
				0.0
				P Final Surf (psi)
				0.0
		Reference Log		
		Calculated Shot Total		
		7		
Perforation Statuses				
		Date	Status	Com
		8/1/2012	Completion	MESAVERDE, ORIGINAL HOLE
		Perforation Company	Conveyance Method	Gun Size (in)
		LONE WOLF WL		0.0
		Shot Density (shots/ft)	Charge Type	Phasing (°)
		3.0		120
		Orientation	Orientation Method	
		Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)
			0.0	FL MD After (ft, KB)
				P Surf Init (psi)
				0.0
				P Final Surf (psi)
				0.0
		Reference Log		
		Calculated Shot Total		
		10		



Perforations

Well Name: RW 31-20B

API 43-047-51724	Surface Legal Location S20-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type S-Well
Unique Well ID UT101985	Gr Elev (ft) 5,579.2	Current Elevation 5,593.20, <elvothernote>	KB to CF (ft) 14.00	Spud Date 7/3/2012 03:30	Dry Hole TD Date 7/24/2012 12:00
S-Well - ORIGINAL HOLE, 3/23/2015 4:09:39 PM		Total Depth (All) (ft, KB) ORIGINAL HOLE - 11,703.0			

Vertical schematic (actual)		Perforation Statuses	
Date	Status	Com	
8/1/2012	OPEN		
Date	Completion	Top Depth (ft, KB)	Bottom Depth (ft, KB)
8/1/2012		10,966.0	10,974.0
Perforation Company	Conveyance Method	Gun Size (in)	Carrier Make
LONE WOLF WL		0.0	
Shot Density (shots/ft)	Charge Type	Phasing (°)	
3.0		120	
Orientation	Orientation Method		
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)
	0.0	0.0	
P Surf Init (psi)	P Final Surf (psi)		
0.0	0.0		
Reference Log			
Calculated Shot Total		25	
Perforation Statuses			
Date	Status	Com	
8/1/2012	OPEN		
Date	Completion	Top Depth (ft, KB)	Bottom Depth (ft, KB)
8/1/2012		10,976.0	10,980.0
Perforation Company	Conveyance Method	Gun Size (in)	Carrier Make
LONE WOLF WL		0.0	
Shot Density (shots/ft)	Charge Type	Phasing (°)	
3.0		120	
Orientation	Orientation Method		
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)
	0.0	0.0	
P Surf Init (psi)	P Final Surf (psi)		
0.0	0.0		
Reference Log			
Calculated Shot Total		7	
Perforation Statuses			
Date	Status	Com	
8/1/2012	OPEN		
Date	Completion	Top Depth (ft, KB)	Bottom Depth (ft, KB)
8/1/2012		11,261.0	11,264.0
Perforation Company	Conveyance Method	Gun Size (in)	Carrier Make
LONE WOLF WL		0.0	
Shot Density (shots/ft)	Charge Type	Phasing (°)	
3.0		120	
Orientation	Orientation Method		
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)
	0.0	0.0	
P Surf Init (psi)	P Final Surf (psi)		
0.0	0.0		
Reference Log			
Calculated Shot Total		10	
Perforation Statuses			
Date	Status	Com	
8/1/2012	OPEN		
Date	Completion	Top Depth (ft, KB)	Bottom Depth (ft, KB)
8/1/2012		11,369.0	11,373.0
Perforation Company	Conveyance Method	Gun Size (in)	Carrier Make
LONE WOLF WL		0.0	
Shot Density (shots/ft)	Charge Type	Phasing (°)	
3.0		120	
Orientation	Orientation Method		
Over/Under Balanced	P Over/Under (psi)	FL MD Before (ft, KB)	FL MD After (ft, KB)
	0.0	0.0	
P Surf Init (psi)	P Final Surf (psi)		
0.0	0.0		
Reference Log			
Calculated Shot Total		13	

10,377.0-10,381.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 13 Phasing: 90
10,400.0-10,404.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 13 Phasing: 90
10,450.0-10,454.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 13 Phasing: 90
10,485.0-10,490.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 13 Phasing: 90
10,663.0-10,665.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 7 Phasing: 90
10,700.0-10,706.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 19 Phasing: 90
10,748.0-10,750.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: Shot Dens: 3.0 Calculated Shot Total: 7 Phasing: 90
10,966.0-10,969.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: OPEN Shot Dens: 3.0 Calculated Shot Total: 10 Phasing: 120
10,966.0-10,974.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: OPEN Shot Dens: 3.0 Calculated Shot Total: 25 Phasing: 120
10,978.0-10,980.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: OPEN Shot Dens: 3.0 Calculated Shot Total: 7 Phasing: 120
11,261.0-11,264.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: OPEN Shot Dens: 3.0 Calculated Shot Total: 10 Phasing: 120
11,369.0-11,373.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: OPEN Shot Dens: 3.0 Calculated Shot Total: 13 Phasing: 120
11,424.0-11,436.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: OPEN Shot Dens: 3.0 Calculated Shot Total: 37 Phasing: 120
11,524.0-11,538.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: OPEN Shot Dens: 3.0 Calculated Shot Total: 43 Phasing: 120
11,552.0-11,554.0; Completion: MESAVERDE, ORIGINAL HOLE Current Status: OPEN Shot Dens: 3.0 Calculated Shot Total: 7 Phasing: 120



Perforations

Well Name: RW 31-20B

API 43-047-51724	Surface Legal Location S20-T7S-R23E	Field Name RED WASH	County UINTAH	State UTAH	Well Configuration Type S-Well
Unique Well ID UT101985	Gr Elev (ft) 5,579.2	Current Elevation 5,593.20, <elvothernote>	KB to CF (ft) 14.00	Spud Date 7/3/2012 03:30	Dry Hole TD Date 7/24/2012 12:00
S-Well - ORIGINAL HOLE, 3/23/2015 4:09:46 PM		Total Depth (All) (ft, KB) ORIGINAL HOLE - 11,703.0			

Perforation Statuses					
Date	Status	Com			
8/1/2012	OPEN				
Date 8/1/2012	Completion	Top Depth (ft, KB) 11,424.0	Bottom Depth (ft, KB) 11,436.0		
Perforation Company LONE WOLF WL	Conveyance Method	Gun Size (in) 0.0	Carrier Make		
Shot Density (shots/ft) 3.0	Charge Type	Phasing (°) 120			
Orientation		Orientation Method			
Over/Under Balanced	P Over/Under (psi) 0.0	FL MD Before (ft, KB) 0.0	FL MD After (ft, KB)	P Surf Init (psi) 0.0	P Final Surf (psi) 0.0
Reference Log					
Calculated Shot Total					37

Perforation Statuses					
Date	Status	Com			
8/1/2012	OPEN				
Date 7/31/2012	Completion	Top Depth (ft, KB) 11,524.0	Bottom Depth (ft, KB) 11,538.0		
Perforation Company LONE WOLF WL	Conveyance Method	Gun Size (in) 0.0	Carrier Make		
Shot Density (shots/ft) 3.0	Charge Type	Phasing (°) 120			
Orientation		Orientation Method			
Over/Under Balanced	P Over/Under (psi) 0.0	FL MD Before (ft, KB) 0.0	FL MD After (ft, KB)	P Surf Init (psi) 0.0	P Final Surf (psi) 0.0
Reference Log					
Calculated Shot Total					43

Perforation Statuses					
Date	Status	Com			
7/31/2012					
Date 7/31/2012	Completion	Top Depth (ft, KB) 11,552.0	Bottom Depth (ft, KB) 11,554.0		
Perforation Company LONE WOLF WL	Conveyance Method	Gun Size (in) 0.0	Carrier Make		
Shot Density (shots/ft) 3.0	Charge Type	Phasing (°) 120			
Orientation		Orientation Method			
Over/Under Balanced	P Over/Under (psi) 0.0	FL MD Before (ft, KB) 0.0	FL MD After (ft, KB)	P Surf Init (psi) 0.0	P Final Surf (psi) 0.0
Reference Log					
Calculated Shot Total					7

Perforation Statuses					
Date	Status	Com			

RW 31-20B

AFE - DRL-CT (completion), 7/30/2012 06:00

Well Name RW 31-20B				Primary Job Type AFE - DRL-CT (completion)	Secondary Job Type DEVELOPMENT	Objective AFE	Start Date 7/30/2012	Job End Date 8/6/2012
RPT #	End Date	Cum Time Log (days)	Day Total (Cost)	Current Ops	Summary	Time Log Hrs (hr)	syscreateuser	
1	7/31/2012 06:00	0.06	131,931.00	WELL IS SI FOLLOWING PERFORATING TO PREP.FOR FRAC ON 8/1/12	RAN A CBL/VL/GR LOG ON 7/30/12. INSTALL FRAC HEAD AND TEST FRAC HEAD AND CSG.TO 7500# ON 7/31/12. PERFORATE MV ZONE #1.	1.50	DFW_WV310User	
2	8/1/2012 06:00	0.54	295,427.00	FRAC 3 MV WELLS AND SET KILL PLUG AT 6000'.	FRAC 3 MV WELLS AND SET KILL PLUG AT 6000'.	11.50	DFW_WV310User	
3	8/2/2012 06:00	1.17	10,841.24	MIRU	08/02/2012: MIRU , 0 PSI ON WELL, N.D. FRAC TREE , N.U. BOPS, RIH W/ P.O.B.S., F-NIPPLE AND 189 JTS, TAG @ 5994' DRILL UP PLUG , TOOK 1600 PSI KICK , 500 PSI ON CASING W/ 48/64 CHOKE, RIH W/ 51 JTS, EOT @ 7617' TURN WELL OVER TO WEATHER FLOW BACK CREW	15.00	DFW_WV310User	
4	8/3/2012 06:00	1.73	62,377.12	TALLEY , RABBIT, RIH W/ TBG	08/03/2012: SITP = 0 PSI, FCP= 1050 ON 28/64 CHOKE, RIH W/ 117 JTS, TAG @ 11290' , P.U. 5 JTS, TAG @ 11472' ,	13.50	DFW_WV310User	
5	8/6/2012 06:00	1.85	2,389.97	RDMO	08/06/2012: SITP = 2150, FTP = 1450 PSI, RDMO, RACK OUT EQUIPMENT, WELL IS FLOWING, FINAL REPORT	3.00	DFW_WV310User	

AFE - REC (Recomplete), 1/30/2015 06:00

Well Name RW 31-20B				Primary Job Type AFE - REC (Recomplete)	Secondary Job Type	Objective Mesa Verde Recomplete	Start Date 1/30/2015	Job End Date 3/6/2015
RPT #	End Date	Cum Time Log (days)	Day Total (Cost)	Current Ops	Summary	Time Log Hrs (hr)	syscreateuser	
1	1/31/2015 06:00		313.51		PULLED BUMPER SPRING		05771	
2	2/3/2015 06:00	0.27	3,544.18	Road rig to location	02/02/2015: Road rig to location spot in equipment. Try to spot in rig w/ no success. Location is to muddy. SDFN	6.50	tempmcclure	
3	2/4/2015 06:00	0.85	7,865.84	MIRU	02/03/2015: MIRU, ND well head. NU bops, Try to pull tbg hanger. Pulled 35 k, rig stink in mud. , Rig down. Pull forward; Spot in w/ mat and board, Rig backup, RU floor and tbg equipment. Pull tbg hanger, POOH w/ tbg. SWIFN w/ EOT @ 7576' Pump 20 bbl's of 2 % KCL to control gas.	14.00	tempmcclure	
4	2/5/2015 06:00	1.42	7,396.94	Bleed well down and pump kill	02/04/2015: . Bleed well down. Pump 15 bbls tbg kill, POOH w/ remaining tbg. Killing well as needed. RU Cutters Wire Line Service. RIH w/ 3.70 gauging ring to 10850' RIH and set 10K CFP @ 10830' Per Lone Wolf CBL Dated 7/30/2012 RD WL. RIH w/ SN and standing valve in place. w/LD 181 jts, RIH w/ 181 jts, Pressure test tbg to 2000# psi. Good test. Retrieve standing valve. LD 181 jt RIH w/ SN and standing valve in place and 41 jts SWIFN w/ EOT @ 1299'	13.50	tempmcclure	
5	2/6/2015 06:00	2.00	36,845.72	RIH w/ tbg	02/05/2015: RIH w/ 140 jts, Fill tbg w/ 22 bbl's Pressure test to 2000# psi. Good test. Try twice to retrieve standing valve w/ no success. LD w/ 180 jts of 2 3/8 L-80 tbg. ND bop's NU frac tree. RU Cutters WL, RIH set 15k CFP @ 10822' Per Lone wolf CBL Dated: 7/30/12, fill casing w/ 160 bbl's of 2% KCL. Pressure test frac tree and casing to 8550#psi. Good test and charted. RIH w. 3 1/8 guns RIH Shot Perfs @ 10748 - 50, 10700 - 06, 10663-65, Per Lone Wolf CBL, GR, CCL, correlated back to Thu Bit Spectral Density Dual Spaced, neutron, GR memory long. Dated 7/22/12, Rack out equipment. RDMO. Well is shut in	14.00	tempmcclure	
6	2/10/2015 06:00	2.00	15,276.64		CONTRACT WORK/ROCKWATER		50170	

RW 31-20B

RPT #	End Date	Cum Time Log (days)	Day Total (Cost)	Current Ops	Summary	Time Log Hrs (hr)	syscreateuser
7	2/11/2015 06:00	3.00	1,859.00	Well shut in.	Finish laying "Rock Water" water transfer line. Start filling frac tanks (15,000 bbls to fill). MIRU Cutters ELU and HES frac equipment. Start pre-fill HES Mtn movers. Prep to start frac in morning. Waiting on re-completion (Est. frac date 2-11-2015).	24.00	seiffert.contractor
8	2/12/2015 06:00	3.98	189,555.98	Start re-completion.	Finish filling fractanks. Prime up and test HES lines to 9,500psi. Good test. Frac stage #1. Plug, perf and frac stages #2 and #3. MU and RIH with kill plug setting at 7,000'. POOH. Bleed pressure off and SIW. RDMO HES frac equipment and Cutters ELU. Turn well over to production group.	23.50	seiffert.contractor
9	2/13/2015 06:00	4.54	16,616.96	MIRU Basin # 3	02/12/2015: . MIRU, Spot in equipment. Bleed well down. ND frac tree, NU bop's Mud cross, annular bag, RU floor and tbq equipment, RIH w/ Pump off bit sub w/ 3 5/8 Hurricane mill, 1.81 F nipple. Talley, Rabbit, RIH w/ tbq to Kill plug @ 7000' Drill out kill plug Took 1300# kick, Drill up in 20 min's Continue to RIH w/ 26 jts, Switch out trailers, SWIFN EOT @ 7872' Turn well over to Weatherford Flow Back.	13.50	tempmcclure
10	2/14/2015 06:00	5.08	47,164.18	RIH w/ tbq	02/13/2015: FCP = 650# psi. ON 25/64, Flowing 100bbl's per hr. SITP = 0# psi. Continue to RIH w/ tbq Tag 1st frac plug @ 10334' Drill up in 35 mins, RIH and drill up 2nd frac plug @ 10522' RIH and tag fill @ 10768 Clean out 54' of sand to 10822' roll hole clean LD 7 jts MU tbq hanger. Land well w/ EOT @ 10647' ND bop's NU well head. Turn well over to production, RDMO	13.00	tempmcclure
11	2/19/2015 06:00	5.08	12,159.38		CONTRACT WORK		50170
12	3/5/2015 06:00	5.65	9,591.83	Road rig to location	03/04/2015: Road rig 7 miles, MIRU, FCP = 550# psi. SITP = 1100#psi. Bleed of tbq. ND well head. NU bop's Pull tbq hanger. RIH w/ 6 jts Tag @ 10822' RU swivel, Drill out Plugs @ 10822' and 10830' Each in 45 min's, RIH w/ 22 jts tag @ 11545' LD 2 jts, MU hanger, Land well w/ EOT @ 11512', MU sub to tbq. Shut in pipe rams and annular, shut in tbq. Casing is up sells Line, Rack out swivel and tbq equipment. SDFN.	13.50	tempmcclure
13	3/6/2015 06:00	5.81	18,556.59	ND bop's	03/05/2015: ND bop's , Drop ball, NU well head. Pump off bit w/ 55 bbls 10 bbls pass vol. No pressure. Turn well over to production. RDMO	4.00	tempmcclure

AFE - REC (Recomplete), 3/7/2015 06:00

Well Name RW 31-20B				Primary Job Type AFE - REC (Recomplete)	Secondary Job Type	Objective	Start Date 3/7/2015	Job End Date 3/8/2015
RPT #	End Date	Cum Time Log (days)	Day Total (Cost)	Current Ops	Summary		Time Log Hrs (hr)	syscreateuser
1	3/8/2015 06:00		757.56		SWABB WELL			06376